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Environmental Impact Statement
Proposed Site Plan Control Application
3043 Dunning Road
City of Ottawa, Ontario

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Submitted to:

Laplante Poultry Farms Ltd.
3043 Dunning Road
Sarsfield, Ontario
K0A 3E0

Environmental Impact Statement
Proposed Site Plan Control Application
3043 Dunning Road
City of Ottawa, Ontario

June 11, 2026
Project: 100117.056

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EXECUTIVE SUMMARY

GEMTEC Consulting Engineers and Scientists Limited (GEMTEC) was retained by Laplante Poultry Farms Ltd. to complete an Environmental Impact Statement (EIS) for the approximately 1.7 hectare (ha) property located on Part of Lot 7, Concession 4, municipally addressed as 3043 Dunning Road, in the Geographic Township of Cumberland, City of Ottawa, Ontario. The proponent is seeking the necessary approvals to support a proposed Site Plan Control Application for the creation of an Agricultural Special Exception Zone and subsequent agricultural use. This EIS has been completed in support of the above proposed site plan and future activities, and was completed in accordance with all federal, provincial and municipal policies and guidelines, as applicable.

In support of this EIS, a desktop review and a single field investigation were completed to identify the presence or absence of natural heritage features and Species at Risk (SAR) on-site. The field investigation was completed in the fall of 2023. The focus of the site investigation was to describe, in general, the natural and physical setting of the subject property with a focus on confirming the presence or absence of natural heritage features and potential SAR or their habitat as identified in the desktop review.

Following completion of the desktop review and site investigations, the following natural heritage features were identified on-site or within the study area: watercourse and fish habitat. Potential habitat was identified on-site for little brown myotis, Eastern small-footed myotis, and Tri-colored bat. No other evidence of SAR or SAR habitat were observed during the investigation.

As no in-water work is proposed as part of the development, potential impacts to the natural heritage features were primarily associated with indirect impacts to fish habitat. Indirect impacts to aquatic habitats are associated with alterations to water quality through increased nutrient and sediment loading.

Potential impacts to natural heritage features on-site are likely to be mitigated through the implementation of development envelopes and setbacks from natural heritage features. Impacts to fish habitat can be mitigated through a 30 metre (m) setback from the on-site Drain, in conjunction with additional plantings to revegetate the riparian area of the Drain with native tree plantings. Impacts to significant wildlife habitat and SAR habitat can be mitigated through adherence to timing windows for vegetation removal.

Additionally, to provide protection to potential SAR and their habitat on-site, reptile and amphibian exclusion fencing should be installed around all future construction areas prior to any development or site alteration, to prevent the immigration of SAR turtles and other wildlife into the construction area. Should any SAR be discovered throughout the course of any development on-site, operations should stop and the species at risk biologist with the local MECP district should be contacted immediately for further direction. Furthermore, to ensure compliance with applicable

legislation, all best management practices and adherence to vegetation clearing for birds and bats, outlined in Section 7 should be followed to ensure no negative impacts occur to natural heritage features on-site.

The proposed project complies with the natural heritage policies of the Provincial Planning Statement and the City of Ottawa Official Plan. No negative impacts to identified natural heritage features or their ecological functions are anticipated as a result of the proposed re-zoning and future land use as long as all mitigation measures in Section 7 are enacted and best management practices followed.

TABLE OF CONTENTS

LIST OF APPENDICES

1.0 INTRODUCTION

GEMTEC Consulting Engineers and Scientists Limited (GEMTEC) was retained by J.L. Richards & Associates Limited (JLR) on behalf of their client, Laplante Poultry Farms Ltd., to complete an Environmental Impact Statement (EIS) for the property municipally addressed as 3043 Dunning Road, on Part of Lot 7, Concession 4, Geographic Township of Cumberland, City of Ottawa, Ontario (hereafter referred to as "the subject property"). The location of the subject property is illustrated on Figure A.1 in Appendix A.

1.1 Purpose

It is understood by GEMTEC that Laplante Poultry Farms Ltd. is seeking to support a proposed Site Plan Control application for the 1.7 ha subject property. The Site Plan Control application would see the creation of an Agricultural Special Exception Zone to permit future agricultural use. The City has provided a study and plan identification list outlining the various accompanying deliverables required for the project to proceed. As part of this list, an Environmental Impact Statement has been identified as a requirement to support the Site Plan Control application. Further, based on *Section 4.7 – Environmental Protection* of the City of Ottawa Official Plan (Ottawa, 2022) an EIS is required showing that any future proposed development will not negatively impact any potential natural heritage features, which may be present within the study area. The study area is defined as the property boundary and the adjacent lands encompassing an area of 120 m beyond the property boundary. The subject project and the extents of the study area are illustrated on Figure A.2 in Appendix A.

1.2 Objective

The 2024 Provincial Planning Statement (MMAH, 2024) issued under Section 3 of the Planning Act states that "development and site alteration shall not be permitted in: habitats of species at risk, significant wetlands, significant woodlands and significant wildlife habitat unless it has been demonstrated that there will be no negative impacts on the natural features or their ecological functions." Similarly, the 2024 Provincial Planning Statement dictates that 'development and site alteration shall not be permitted in fish habitat except in accordance with provincial and federal requirements."

The objective of the work presented herein is twofold; 1) to identify and evaluate the significance of any natural heritage features, as defined in the Provincial Planning Statement (MMAH, 2024), on the subject property and within the broader study area and; 2) to assess the potential impacts from the proposed re-zoning and potential future development on any natural heritage features identified, and to recommend appropriate and defensible mitigation measures to ensure the long-term protection of any natural heritage features identified.

To meet these objectives, the EIS presented herein has been completed in accordance with the following provincial and municipal regulations, policies and guidelines:

- Provincial Planning Statement (MMAH, 2024);
- Species at Conservation Act (Ontario, 2025);
- Species at Risk Act (Canada, 2002);
- Conservation Authorities Act (Ontario, 1990);
- Natural Heritage Reference Manual (OMNR, 2010);
- City of Ottawa Official Plan (Ottawa, 2022); and
- City of Ottawa EIS Guidelines (Ottawa, 2023)

1.3 Physical Setting

The subject property is located on Part of Lot 7, Concession 4, Geographic Township of Cumberland, City of Ottawa, Ontario. The subject property currently consists of a light industry commercial community within a greater study area of agricultural land use.

The subject property is bound to the north and to the east by 3105 Dunning Road. To the west the site is bound by Dunning Road, and to the south by 3085 Dunning Road.

1.3.1 Land Use Context

The subject property is situated within a larger agricultural area. The existing land use designation from the City of Ottawa is general rural area. The City of Ottawa zoning by-law is agricultural zone (AG[537r]).

2.0 METHODOLOGY

2.1 Desktop Review

A desktop information gathering exercise was completed to aid in the scoping of field investigations and to gather information relating to natural heritage features which may be present on the subject project or within 1 km of the subject property. An additional component of the desktop review was to assess the potential presence of SAR to occur on the subject property or within the study boundary based on a review of publicly accessible occurrence records and a review of SAR habitat requirements and range maps.

Information regarding the potential presence of natural heritage features and SAR within the vicinity of the site was obtained from the following sources:

- Make a Map: Natural Heritage Areas (OMNRF, 2014a)
- Land Information Ontario (OMNRF, 2011);
- City of Ottawa Official Plan (City of Ottawa, 2022)
- Ontario Geological Survey (OGS, 2019);
- Fisheries and Oceans Canada SAR Maps (DFO, 2019);
- Natural Heritage Information Centre Biodiversity Explorer (OMNRF, 2013);
- Breeding Bird Atlas of Ontario (Cadman et al., 2007)
- Ontario Herpetofaunal Atlas (Oldham and Weller, 2000);
- Wildlife Values Area (OMNRF, 2020a);
- Wildlife Values Site (OMNRF, 2020b);
- Ontario Reptile and Amphibian Atlas (Ontario Nature, 2019); and
- Rideau Valley Conservation Authority (RVCA) GeoPortal (undated).

2.2 Field Investigations

A single field investigation was undertaken to describe, in general, the natural and physical setting of the subject property with a focus on identifying natural heritage features and any potential SAR or their habitat that may exist at the subject property.

The field investigation was completed on November 2, 2023, from 10:30 to 13:00. Conditions during the site investigation were as follows: 11°C, partly cloudy (40% cloud cover), Beaufort wind 2, no precipitation.

2.2.1 Ecological Land Classification

Vegetation communities on the subject property were delineated during the desktop review stage of this EIS using publicly available air photos and confirmed in the field on November 2, 2023, following the Ecological Land Classification System for Southern Ontario (Lee et al., 2008). Vegetation communities were confirmed in the field by employing the random meander

methodology while documenting dominant vegetation species within the various vegetation community forms.

2.3 Data Analysis

An evaluation of the significance of natural heritage features, the sensitivity of identified flora and fauna and the potential impacts posed by the proposed development was undertaken through an analysis of desktop and field investigation data using the approaches and criteria outlined in the following documents:

- Natural Heritage Reference Manual (OMNR, 2010);
- Significant Wildlife Habitat Technical Guide (OMNR, 2000);
- Significant Wildlife Habitat Ecoregion Criterion Schedules (OMNRF, 2015a); and
- Significant Wildlife Habitat Mitigation Support Tool (OMNRF, 2014b).

3.0 EXISTING ENVIRONMENT

3.1 Ecoregion

The site is situated Ecoregion 6E-11 (Lake Simcoe-Rideau), which extends from Lake Huron in the west to the Ottawa River in the east. The climate of Ecoregion 6E is categorized as humid, high to moderate temperate ecoclimate with a mean annual temperature range between 4.9°C to 7.8°C with annual precipitation ranging between 759 mm to 1,087 mm (Crins et al., 2009).

The eastern portion of the Ecoregion, which the subject property is located, is underlain by glaciomarine deposits as a result of the brief post-glacial incursion of salt water from the Champlain Sea along the St. Lawrence Valley. This Ecoregion falls within Rowe's (1972) Great Lakes-St. Lawrence Forest Region, including its Huron-Ontario and Upper St. Lawrence sections, and a small part of the Middle Ottawa Forest section (Crins et al., 2009).

3.2 Study Area Land Use

Figure 1 below provides an illustration of the temporal changes in land use within the study area from 1976, 1999, 2011, and 2023 aerial imagery taken from Google Earth and GeoOttawa.

In 1976, the subject property is occupied primarily by agricultural fields, similar to present day configuration. The surrounding study area is composed entirely of open agriculture. A house and an agricultural building are present on the subject property, which appear to be consistent with present day buildings.

By 1999, the subject property has undergone development associated with the conversion of open agriculture fields to a light industry commercial community and the addition of a new agricultural building. The buildings on-site in 1999 reflects the current day development extents. The greater study area remains in much the same configuration, with some minor expansion of agricultural building infrastructure and residential development on neighboring properties.

By 2011, the subject property and greater study area remains largely in the same configuration as in 1999.

By 2023, the subject property and the greater study continue to remain in the same configuration as in 2011.

Figure 1 – Temporal Changes in Land Use within Study Area

3.2.1 Beckett's Creek Subwatershed Study

The Beckett's Creek Subwatershed Study (City of Ottawa, 2023) was completed to examine the existing conditions of the area and to identify any needed actions to improve its environmental health and condition over the long term. The Beckett's Creek subwatershed encompasses an area of approximately 6,453 ha, including the eastern part of the Village of Cumberland, extending southwards to Colonial Road in the Village of Sarsfield, west to the O'Toole Road/Regimbald Road intersection, and east to Joanisse Road. The Beckett's Creek Subwatershed Study (BCSWS) identifies opportunities and constraints for improvement of the Beckett's Creek Watershed while providing a series of Best Management Practices (BMPs) that may be implemented in order to protect, enhance or restore the environment. The desktop review has identified a watercourse within the study area, mapped on the BCSWS as the Jules Porvin Municipal Drain.

3.3 Landforms, Soils and Bedrock Geology

The topography of the subject property is mostly flat. The entire property occurs at approximately 85 mASL. A slight graded slope of less than a meter is present centrally on the property southwest to Dunning Road.

One topographical landform, as mapped by Chapman and Putnam (1984) has been described on the subject property, clay plains of the Ottawa Valley Clay Plains physiographic region.

The Ontario Geological Survey (OGS, 2019) identifies one surficial soil unit on the subject property, fine-textured glaciomarine deposits composed of silt and clay, minor sand and gravel.

Bedrock on the site is composed of the Ottawa Group, comprised of limestone, dolostone, shale, arkose, and sandstone.

3.4 Surface Water, Groundwater and Fish Habitat

Surface water features identified on-site during the desktop review and confirmed during the field investigation include a watercourse and two drainage ditches. As mentioned in Section 3.2.1 above, the watercourse is mapped by the BCSWS as the Jules Potvin Municipal Drain (Drain). The two on-site drainage ditches are not considered watercourses by the RVCA and CA definition, the RVCA considers these drainage ditches based on correspondence between the RVCA and JLR. No provincially significant or local unevaluated wetlands are present on-site or within the study area. Photos of surface water features are provided in Appendix B.

The Jules Potvin Municipal Drain (herein referred to as The Drain) originates approximately 650 m south of the site where it serves as a drainage point of the surrounding agricultural lands. The Drain enters the study area from the southeast, follows the eastern property boundary and then discharges into Becketts Creek just north of the study area. The Drain was observed to have an approximate width of 2 – 3 m, depths between 10-30 cm, and slow to stagnant flow conditions. The banks of the Drain were notably steep, with entrenchment of about 2 m on either side.

The two drainage ditches displayed similar characteristics, with average widths of 0.8 m, overgrown with reed vegetation, and between 3-5 cm of water with intermittent dry spots. One drainage ditch was observed along the northern property boundary from Dunning Road to the Drain. The second drainage ditch follows the southern property boundary, from the Drain to the midpoint of the subject property.

A fisheries assessment was not conducted as part of this EIS. However, based on observations made during the site investigation and observed connectivity to Becketts Creek, it is assumed that the Drain provides permanent fish habitat. Due to the limited hydrology of the on-site drainage ditches, the ditches are not considered to provide permanent fish habitat but may contribute to base flow conditions for downstream habitat during spring freshet and following major precipitation events.

Groundwater investigations were not completed in support of this EIS.

3.5 Vegetation Communities

Vegetation communities on-site were confirmed by GEMTEC in 2023, following protocols utilized in the Southern Ontario Ecological Land Classification System (Lee et al., 2008). Vegetation at the site represents a that of a light industry commercial land use.

The commercial – light industry community (CVC_2) was observed across the entire 1.7 ha property. Vegetation within this community was nearly entirely manicured lawn. Other common species included dandelion (*Taraxacum sp.*), clover (*Trifolium sp.*), common vetch (*Vicia sativa*),

and burdock (*Arctium sp.*). The drainage ditches and areas around the drainage ditches were occupied by cattails (*Typha sp.*), horsetail (*Equisetum sp.*), nightshade (*Solanaceae sp.*), and bramble (*Rubus sp.*). Some scattered Manitoba maples (*Acer negundo*) were present along the Drain. Two rows of white spruce (*Picea glauca*) were present within the southern portion of the community. The northern portion of the property has an agricultural building occupying 0.26 ha.

3.6 Wildlife

Wildlife observed on-site and within the study area during field investigations completed in 2023 are summarized in Table C.1 in Appendix C.

4.0 NATURAL HERITAGE FEATURES

Natural heritage features are defined in the PPS as “features and areas, including *significant wetlands, significant coastal wetlands, fish habitat, significant woodlands* south and east of the Canadian Shield, *significant valleylands* south and east of the Canadian shield, *habitats of endangered species and threatened species, significant wildlife habitat* and *significant areas of natural and scientific interest*, which are important for their environmental and social values as a legacy of the natural landscape of an area”.

4.1 Significant and Local Wetlands

As described in the Natural Heritage Reference Manual (OMNR, 2010), wetlands mean “lands that are seasonally or permanently covered by shallow water, as well as lands where the water table is close to or at the surface.” While *significant* in regards to wetlands means “an area identified as provincially significant by the Ontario Ministry of Natural Resources and Forestry using evaluation procedures established by the Province, as amended from time to time.”

No provincially significant or local unevaluated wetlands were identified on-site or within the study area during the desktop review, nor were they identified during the field investigation. As such, provincially significant and local unevaluated wetlands are not discussed or evaluated further in this EIS.

4.2 Significant Woodlands

Significant woodlands are defined in the natural heritage reference manual (OMNR, 2010) as “an area which is ecologically important in terms of features such as species composition, age of trees and stand history; functionally important due to its contribution to the broader landscape because of its location, size or due to the amount of forest cover in the planning area; or economically important due to site quality, species composition, or past management history.”

At the local scale, significant woodlands are defined and designated by the local planning authority. Generally, most planning authorities have defined significant woodlands as any woodland that contains any of the four criteria listed in Section 7.2 of the natural heritage reference manual (OMNR, 2010), including: woodland size, ecological functions, uncommon characteristics and economic and social functional values. Furthermore, the City of Ottawa provides a supplementary document *Significant Woodland: Guidelines for Identification, Evaluation, and Impact Assessment* (Ottawa, undated) to evaluate woodlands and ensure compliance with the city’s policies.

As outlined in Section 3.5 above, the site is primarily a light industry commercial property surrounded by open agriculture. No woodland or forest communities have been identified on-site or within the study area during the desktop review or site investigation. As such, significant woodlands are not present on-site or within the study area and they are not discussed or evaluated further in this EIS.

4.3 Significant Valleylands

Valleylands are defined in the natural heritage reference manual (OMNR, 2010) as ‘a natural area that occurs in a valley or other landform depression that has water flowing through or standing for some period of time”. The identification and evaluation of significant valleys lands in Ontario is based on the recommended criteria from the MNRF and is the responsibility of local planning authorities.

In Southern Ontario, conservation authorities have identified valleylands as part of their regulation mapping (i.e., floodplain mapping); however, where valleys lands have not been defined, their physical boundaries are generally determined as the ‘top-of-bank’ or ‘top-of-slope’ associated with a watercourse. For less well-defined valleys, the physical boundary may be defined by riparian vegetation, flooding hazard limits, ordinary high water marks or the width of the stream meander belt (OMNR, 2010).

As discussed in Section 3.2, the site has a mostly flat topography, and no valleylands or floodplains were identified on-site during the desktop review or the site investigations. As such, significant valleylands are not discussed or evaluated further in this EIS.

4.4 Significant Areas of Natural and Scientific Interest

The MNRF identifies two types of areas of natural and scientific interest (ANSI) in Ontario: life sciences ANSIs typically represent significant segments of Ontario’s biodiversity and natural landscapes, while earth science ANSIs typically represent significant examples of bedrock, fossils or landforms in Ontario (OMNR, 2010).

No ANSI have been identified on-site or adjacent to the site during the desktop review or during site investigations. Therefore, ANSI are not discussed or evaluated further in this EIS.

4.5 Significant Wildlife Habitat

The natural heritage reference manual (OMNR, 2010), in combination with the significant wildlife habitat technical guide (MNRF, 2000) and the significant wildlife habitat ecoregion criterion schedules (MNRF, 2015) were used to identify and evaluated potential significant wildlife habitat on-site. The significant wildlife habitat is broadly categorized as habitats of seasonal concentration areas of animals, rare vegetation communities, specialized habitats for wildlife, habitats of species of conservation concern and animal movement corridors. With the exception of rare vegetation communities, Tables C.2, C.3, C.4 and C.5 in Appendix C, provide the screening rationale for each category of significant wildlife habitat, respectively.

4.5.1 Habitats of Seasonal Concentrations of Animals

Seasonal concentration areas are habitats where large numbers of species congregate at one particular time of the year. The significant wildlife habitat technical guides (OMNR, 2000) and significant wildlife habitat ecoregion criterion schedules (OMNRF, 2015a) identify 12 types of

seasonal concentration habitats that may be considered significant wildlife habitat. These 12 types of seasonal habitat are presented in Table C.2 in Appendix C, including a brief description of the rationale as to why they are or are not assessed further in this EIS.

Following review of Table C.2 in Appendix C, no habitats of seasonal concentrations of animals have been identified on-site or within the study area. As such, habitats of seasonal concentrations of animals are not discussed or evaluated further in this EIS.

4.5.2 Rare Vegetation Communities

Rare vegetation communities in the province are described generally as those with an S1 to S3 ranking by the NHIC, and typically include communities such as sand barrens, alvars, old growth forests, savannahs and tallgrass prairies.

The vegetation communities identified on-site and described in Section 3.4 of this report are not ranked by the NHIC as S1, S2 or S3 and are therefore not considered to be rare vegetation communities. As such, rare vegetation communities are not discussed or evaluated further in this EIS.

4.5.3 Specialized Habitats for Wildlife

Specialized wildlife habitats are microhabitats that provide a critical resource to some groups of wildlife. The significant wildlife habitat technical guide (OMNR, 2000), defines eight specialized habitats that may constitute significant wildlife habitat, these eight types of specialized wildlife habitats are evaluated in Table C.3 in Appendix C.

Following review of Table C.3 in Appendix C, no specialized habitats for wildlife have been identified on-site or within the study area. As such, specialized habitats for wildlife are not discussed or evaluated further in this EIS.

4.5.4 Habitats of Species of Conservation Concern

Provincial rankings are used by the Natural Heritage Information Centre to set protection priorities for rare species, similar to those described in Section 4.5.2 above for vegetation communities. Provincial rankings (S-ranks), are not legal designations such as those used to define the various protection statuses of species at risk, they are only intended to consider factors within the political boundaries of Ontario that might influence a particular species abundance, distribution or population trend.

Based on the guidance provided in the Significant Wildlife Habitat Ecoregion Criterion Schedules (MNRF, 2015), when a plant or animal element occurrence is recorded for any species with an S-rank of S1 (extremely rare), S2 (very rare), S3 (rare to uncommon) or SH (historically present), the corresponding vegetation ecosite is considered to provide *candidate* habitat for species of conservation concern and further consideration within the EIS is warranted.

The Significant Wildlife Habitat Ecoregion Criterion Schedules (OMNRF, 2015), provides five general habitat types known to support a wide range of species of conservation concern in Ontario. The five general habitat types for Ecoregion 6E-11 are provided in Table C.4 in Appendix C, including a brief rationale as to why they are or are not considered further in this EIS. Following review of Table C.4 in Appendix C, no habitats of species of conservation concern has been identified on-site or within the study area and they are not discussed or evaluated further in this EIS.

4.5.5 Animal Movement Corridors

Animal movement corridors are elongated areas used by wildlife to move from one habitat to another and allow for the seasonal migration of animals (OMNRF, 2015). The Significant Wildlife Habitat Ecoregion Criterion Schedules for Ecoregion 6E-11 (OMNRF, 2015), identifies two types of animal movement corridor: amphibian movement corridors and deer movement corridors. As per guidance presented in MNRF, 2015, animal movement corridors should only be identified as significant wildlife habitat when a *confirmed or candidate* significant wildlife habitat has been identified by the MNRF district office or by the regional planning authority.

Following review of Table C.6 in Appendix C, no animal movement corridors have been identified on-site. Furthermore, the MNRF has not identified any animal movement corridors on the publicly available data sets for wildlife values area (OMNRF, 2020a) or wildlife values site (OMNRF, 2020b). The subject property does not fall within a natural linkage area as identified by the City of Ottawa Natural Linkage Analysis (City of Ottawa, 2011). As such, animal movement corridors are not discussed or evaluated further in this EIS.

4.6 Fish Habitat

The protection of fish and fish habitat is a federal responsibility and is administered by the Department of Fisheries and Oceans Canada (DFO). Fish habitat as defined in the Fisheries Act (Canada, 1985) means, “spawning grounds and nursery, rearing food supply and migration areas on which fish depend directly or indirectly in order to carry out their life processes.”

When development is unable to avoid resulting in the harmful alteration, disturbance or destruction of fish habitat from typical project impacts such as temperature change, sedimentation, infilling, reduction of nutrient and food supply, etc., an authorization under the Fisheries Act is required for the project to proceed.

A fisheries assessment was not conducted as part of this EIS. As mentioned in Section 3.3, only the Jules Potvin municipal drain is assumed to provide direct fish habitat. The drainage ditches on-site were not found to provide direct fish habitat due to lack of sufficient water depth, water permanency and lack of flow/connectivity to downstream habitat. Both the Drain and the ditches are likely to contribute to baseflows of downstream fish habitat during the spring freshet or other large storm events.

Impacts to fish habitat from the proposed development are discussed in Section 6.

4.7 Species at Risk

The probability of occurrence for species at risk to occur on-site and within the broader study area was determined through the desktop review stage of this EIS, as described in Section 2.1, and through the single field investigation conducted as part of this EIS, outlined in Section 2.2.

Table C.7 in Appendix C, provides a summary of all Species at Risk that were considered to have the potential to occur on-site or within the broader study area. The table summarizes each species protection status under the provincial SCA (Ontario, 2025) and the federal SARA (Canada, 2002), their probability of occurrence and a brief rationale of that probability. For birds, their status under the MBCA is provided. Impacts to endangered or threatened protected species determined to have a moderate or high potential to occur on-site or within the broader study area are discussed further in Section 6.

5.0 PROPOSED PROJECT

The proposed project assessed for potential impacts on the natural heritage features determined to be present within the broader study area includes a proposed Zoning By-law Amendment for an existing 1.7 ha parcel, addressed as 3043 Dunning Road, Ottawa, Ontario. The proposed Site Plan Control application would see the zoning change from Agricultural Resource Area to an Agricultural Special Exception Zone, to permit future agricultural use on-site. The area to be rezoned as part of the Site Plan Control application is illustrated on Figure A.2.

The act of rezoning the property parcel from Agricultural Resource Area to an Agricultural Special Exception Zone is not expected to result in any physical alteration to the subject property.

However, future development on the severed parcel may include vegetation removal, excavation for the installation of a septic system, water tank, HVAC equipment, ammonia storage, generator, and general landscaping. It is understood that the drive aisle portion of future land use has been completed as part of the process to meet fire code standards and is considered as existing condition.

It is further understood that the activities carried out through the zoning change will lead to a minor increase in noise generation and air pollutants. However, impacts related to noise and air pollutant generation are anticipated to be negligible given the surrounding agricultural and light industry land use.

Potential environmental impacts from the proposed project are discussed in relation to potential future development in Section 6 below.

6.0 IMPACT ASSESSMENT

Potential impacts to natural heritage features on-site and within the broader study area are assessed for direct, indirect and cumulative effects based on the proposed project outlined in Section 5. Natural heritage features identified in Section 4 of this report as present or likely to be present are discussed in the subsections below.

Potential effects to the environment of the site from the proposed development outlined in Section 5 include: a minor increase in impervious surface, minor increase in stormwater generation, short-term increases in sedimentation and/or erosion, increased noise generation, and increased human presence.

6.1 Significant Wildlife Habitat

The potential presence of *candidate* and *confirmed* significant wildlife habitat on-site and within the study area was evaluated in Section 4.5. As a result of this assessment, significant wildlife habitats were determined to be absent on-site and within the study area and as such, they are not discussed or evaluated further in this EIS.

6.2 Fish Habitat

According to the Provincial Planning Statement (MMAH, 2024), “development and site alteration shall not be permitted in fish habitat except in accordance with provincial and federal requirements.” Fish habitat as defined in the Fisheries Act (Canada, 1985) means “spawning grounds and nursery, rearing, food supply and migration areas on which fish depend directly or indirectly in order to carry out their life processes.”

In 2019, changes were made to the Fisheries Act, broadening the protection for fish and fish habitat. Under the new Fisheries At, protection is afforded to all fish and fish habitat, not just those that support either a recreational, commercial, or Aboriginal fishery. Under the Fisheries Act, work that is conducted in or near waterbodies must avoid “the death of fish, other than by fishing” (Canada, 1985). Furthermore, the new Fisheries Act states that work must avoid “the harmful alteration, disruption or destruction (HADD) of fish habitat” (Canada, 1985).

When activities are unable to avoid or mitigate harm to fish or fish habitat from typical project impacts such as temperature change, sedimentation, infilling, reduction of nutrient and food supply, etc., an authorization under Subsection 35 (2) of the Fisheries Act is required for the project to proceed without contravening the Act.

The proposed re-zoning and future development are not anticipated to require any in-water work, and are not in close proximity to the on-site Drain or drainage ditch; thus, they are not anticipated to be directly impacted.

As such, potential impacts to fish habitat are anticipated to be indirect in nature. Potential indirect impacts to water quality and fish habitat from the proposed development may include increased overland flow and concomitant sediment transport caused by an increase in impervious surface area, increased nutrient and/or contaminant loading through both overland and subsurface pathways resulting from landscaping practices. Avoidance and mitigation measures intended to protect fish and fish habitat from negative impacts are discussed in Section 7.

6.3 Species at Risk

6.3.1 Species Conservation Act (Ontario, 2025)

The SCA identifies endangered and threatened species under the Protected Species in Ontario (PSO) list that receive individual and habitat protections. Species of special concern and their habitat are not protected under the SCA. COSSARO maintains SAR designations and assessment for special concern, threatened and endangered species, but only those threatened and endangered species listed in the Protected Species in Ontario list receive protection under the SCA.

The SCA provides habitat definitions for specific species (e.g. black ash), for all other species whose habitat is not specifically outlined in the SCA, the following definition is used:

"'habitat' means:

a) *In respect of an animal species:*
    i. *A dwelling-place such as a den, nest or other similar place, that is occupied or habitually occupied by one or more members of a species for the purposes of breeding, rearing, staging, wintering or hibernating, and*
    ii. *The area immediately around a dwelling place described in subclause (i) above that is essential for the purposes set out in that subclause*
b) *In respect of a vascular plant species: the critical root zone surroundings a member of the species, and*
c) *In respect of all other species: an area on which any member of a species directly depends in order to carry on its life processes"*

Endangered and threatened species identified in Table C.7 as having a moderate or high potential to occur on-site are discussed in the sub-sections below.

6.3.1.1 Eastern Red Bat

Eastern red bat (*Lasiurus borealis*) are long distance migrants, travelling from the overwintering grounds in Mexico and the southern United States where they hibernate under leaf litter, with periods of torpor lasting several days (COSEWIC, 2023). In the summer the species makes long distance trips to summer ranges in the north, with the species showing high fidelity to small roosting areas (COSEWIC, 2023).

Although the site does not provide potential bat SWH, given the availability of open habitat and anthropogenic buildings on-site and within the study area, there is a potential for eastern red bat to occur on the property, primarily for foraging or non-maternal roosting. Impacts to eastern red bat are primarily associated with encroachment and increased wildlife-human interaction. Mitigation measures intended to protect eastern red bat from impacts of the proposed development are discussed in Section 7.

6.3.1.2 Eastern Small-footed Myotis

Eastern small-footed Myotis (*Myotis leibii*) is the smallest (typically 3-5 g), insectivorous bat found in Ontario. The fur of an eastern small-footed myotis is golden-brown in colour, with a distinct black mask across the face. The eastern small-footed Myotis is very similar in appearance to the little brown Myotis and is distinguishable by their small foot and keeled calcar (Fraser, MacKenzie & Davy, 2007).

The eastern small-footed Myotis is found throughout eastern North America. In Ontario the species has been observed in the areas sough of Lake Superior across to the Ontario-Quebec border (Humphrey, 2017).

Eastern small-footed Myotis overwinter primarily in caves and abandoned mines with low humidity and temperatures and stable microclimates (Humphrey, 2017). In comparison to other Ontario bat species, they are able to tolerate much colder temperatures, drier conditions and draftier locations for hibernating (Humphrey, 2017). During the spring and summer months, they utilize a variety of habitats for roosting, including under rocks or rock outcrops, in buildings, under bridges, or in caves, mines or hollow trees (Ontario, 2019a).

Although the site does not provide potential bat SWH, given the availability of open habitat and anthropogenic buildings on-site and within the study area, there is a potential for eastern small-footed Myotis to occur on the property, primarily for foraging or non-maternal roosting. Impacts to eastern small-footed Myotis are primarily associated with encroachment and increased wildlife-human interaction. Mitigation measures intended to protect eastern small-footed Myotis from impacts of the proposed development are discussed in Section 7.

6.3.1.3 Hoary Bat

The hoary bat (Lasiurus cinereus) is a long distance migratory species, travelling from southern overwintering sites in the United States and Mexico, up to northern summer sites across Canada (COSEWIC, 2023). The species relies of forested habitats and clearing to carry out maternal roosting and foraging life processes (COSEWIC, 2023).

Although the site does not provide potential bat SWH, given the availability of open habitat and anthropogenic buildings on-site and within the study area, there is a potential for hoary bat to occur on the property, primarily for foraging or non-maternal roosting. Impacts to hoary bat are

primarily associated with encroachment and increased wildlife-human interaction. Mitigation measures intended to protect hoary bat from impacts of the proposed development are discussed in Section 7.

6.3.1.4 Little Brown Myotis

Little brown Myotis (*Myotis lucifugus*) is a small (typically 4-11 g), insectivorous bat. The fur of a little brown Myotis is bi-coloured; fur is a glossy brown with a darker coloured base. The tragus of the little brown Myotis is long and thin, with a rounded tip (Fraser, MacKenzie & Davy, 2007).

In Canada, little brown Myotis' occur throughout all of the provinces and territories (except Nunavut), with its range extending south through the majority of the United States as well. In Ontario, the little brown Myotis is widespread in southern Ontario and has been found as far north as Moose Factory and Favourable Lake (Ontario, 2019b).

Little brown Myotis overwinter in caves and abandoned mines, they require highly humid conditions and temperatures that remain above the freezing mark (Ontario, 2019b). During the summer months, maternity colonies are often located in buildings or large-diameter trees. Little brown Myotis roost in trees and buildings. Foraging occurs over water and along waterways, forest edges and in gaps in the forest. Open fields and clear-cuts are not typically utilized for foraging (COSEWIC, 2013b).

Although the site does not provide potential bat SWH, given the availability of open habitat and anthropogenic buildings on-site and within the study area, there is a potential for little brown Myotis to occur on the property, primarily for foraging or non-maternal roosting. Impacts to little brown Myotis are primarily associated with encroachment and increased wildlife-human interaction. Mitigation measures intended to protect little brown Myotis from impacts of the proposed development are discussed in Section 7.

6.3.1.5 Silver-haired Bat

Silver-haired bat (*Lasionycteris noctivagans*) is a large-bodied insectivorous bat. The fur black to dark brown, often with silver or grey tips and is found across Canada in the summer months and during fall migration (COSEWIC, 2023).

The full extent of the Canadian range is not well known due to lack of survey efforts. The species is a long-distance migrant, travelling from overwintering sites in the southern united states and Mexico up to summer sites in Canada (COSEWIC, 2023). The species shows high fidelity to forested ecosites with clearings, where summer maternal roosting and foraging occurs (COSEWIC, 2023).

Although the site does not provide potential bat SWH, given the availability of open habitat and anthropogenic buildings on-site and within the study area, there is a potential for silver-haired bat to occur on the property, primarily for foraging or non-maternal roosting. Impacts to silver-haired

bat are primarily associated with encroachment and increased wildlife-human interaction. Mitigation measures intended to protect silver-haired bat from impacts of the proposed development are discussed in Section 7.

6.3.1.6 Tri-colored Bat

Tri-colored bat (*Perimyotis subflavos*) is a small (typically 5-7 g), insectivorous bat. The fur is uniformly coloured on the ventral and dorsal sides, however when parted fur shows three distinct colour bands. The base of the hair is blackish, with a blonde middle and brownish tip. The snout of the tri-coloured bat is also distinct, with swollen bulbous glands present (Fraser, MacKenzie & Davy, 2007).

In Canada, the tri-colored bat has only been recorded in southern parts of Nova Scotia, New Brunswick, Quebec and central Ontario. In Ontario it occurs primarily from the southern edge of Lake Superior across to the Ontario-Quebec border and south (COSEWIC, 2013).

Tri-colored bat overwinter in in caves or mines, and have very rigid habitat requirements; they typically roosting the deepest parts where temperatures are the least variable, and have the strongest correlation with humidity levels and warmer temperatures (COSEWIC, 2013). In the spring and summer, tri-colored bat utilizes trees, rock crevices and buildings for maternity colonies. Foraging is mainly done over watercourses and streamside vegetation (COSEWIC, 2013).

Although the site does not provide potential bat SWH, given the availability of open habitat and anthropogenic buildings on-site and within the study area there is a potential for tri-colored bat to occur on the property, primarily for foraging or non-maternal roosting. Impacts to tri-colored bat are primarily associated with encroachment and increased wildlife-human interaction. Mitigation measures intended to protect tri-colored bat from impacts of the proposed development are discussed in Section 7.

6.3.2 Species at Risk Act (Canada, 2002)

SARA applies only to species listed on Schedule 1. Endangered and threatened species on Schedule 1 are protected automatically on federally owned lands. The Prohibitions of SARA do not apply to species of special concern. Under the general prohibitions of SARA, it is illegal to:

- kill, harm, harass, capture, or take an individual of a species listed in Schedule 1 of SARA as endangered, threatened or extirpated;
- possess, collect, buy, sell or trade an individual of a species listed in Schedule 1 of SARA as endangered, threatened or extirpated; or
- damage or destroy the residence (e.g. nest or den) of one or more individuals of a species listed in Schedule 1 of SARA as endangered, threatened or extirpated, if a recovery strategy has recommended the reintroduction of that extirpated species.

These prohibitions apply to:

- all endangered, threatened and extirpated species listed in Schedule 1 of SARA when found on federal lands in a province, or lands under the authority of the Minister of the Environment or the Parks Canada Agency in a territory;
- all endangered, threatened and extirpated migratory birds listed in Schedule 1 of SARA and protected by the Migratory Birds Convention Act, 1994, anywhere they occur, including private lands, provincial lands and lands within a territory; or
- all endangered, threatened and extirpated aquatic species listed in Schedule 1 of SARA, anywhere they occur, including private lands, provincial lands and lands within a territory.

In addition to the general prohibitions, SARA outlines Critical Habitat for listed species through the development of a recovery strategy or action plan. Critical habitat for SARA Schedule 1 species is automatically protected on federally owned lands. On non-federal lands, the critical habitat protections extend automatically to aquatic species. Critical habitat for non-aquatic Schedule 1 species is not automatically protected on provincially or privately owned lands.

6.3.2.1 Migratory Bird Schedule 1 Species

The following Schedule 1 threatened or endangered species are also listed under the MBCA, and have been identified as having a potential to occur on-site:

- Bobolink
- Eastern Meadowlark

Under SARA regulations, individuals and their nests are protected by the general prohibitions. No critical habitat has been identified for any of the identified species.

6.3.2.2 Aquatic Schedule 1 Species

No aquatic Schedule 1 threatened or endangered species have been identified as having a potential to occur on-site.

6.4 Cumulative Impacts

Potential cumulative impacts associated with the proposed project include a minor increase in storm water generation, and a minor loss of manicured lawn habitat of little ecological value.

Cumulative impacts to the natural environment at the site due to increased human presence are expected to be negligible given the nature of the development, an abattoir within an existing agricultural building.

Cumulative impacts such as those listed above can be mitigated by implementing the proposed setbacks and recommended mitigation measures outlined in Section 7 below.

7.0 RECOMMENDED AVOIDANCE AND MITIGATION MEASURES

The following avoidance and mitigation measures have been recommended by GEMTEC in order to minimize or eliminate potential environmental impacts identified in Section 6.

For the purpose of this report, a setback is defined as the minimum required distance between any structure, development or disturbance and a specified line. A buffer, for the purpose of this report, is defined as the area located between a natural heritage feature and the prescribed setback. For the purpose of the following subsections, buffers should be located between natural heritage features and lands subject to development or alteration, be permanently vegetated by native or non-invasive, self sustaining vegetation and protect the natural heritage feature against the impact of the adjacent land use.

Vegetated buffers, particularly buffers that are vegetated with a mix of grassy herbaceous vegetation and shrubby or woody vegetation are most effective in mitigating impacts associated with anthropogenic activities in adjacent lands (Beacon, 2012). In the subsections below, where possible, literature references for studies used as the basis of the recommended buffer widths are provided.

7.1 Fish Habitat

No negative impacts on fish habitat are anticipated as a result of this project if all compensation and mitigation measures recommended below are enacted and best management practices followed.

Watercourse buffer widths have a moderate risk of not providing adequate mitigation for water quality impacts and for human disturbance/land use change impacts at widths between 11 m and 30 m and high risk at widths of less than 5 m to 10 m. Watercourse buffer widths have a low risk of not providing adequate mitigation for core habitat protection at widths between 11 m and 30 m and high risk at width of less than 5 m to 20 m (Beacon, 2012). In consideration of the on-site Drain and the nature of the proposed development, a minimum 30 m setback from the Drain is recommended and is sufficient to protect the watercourse and its associated habitat. No development, site alteration or vegetation removal, beyond the portions of proposed snow storage area and septic system within lawn/gravel space, is permitted within the 30 m setback. Given the drainage ditches on-site do not provide fish habitat, have little ecological value, and are not considered watercourses as per discussion with the RVCA, no setback is required. The above recommendations are line with best practices described in the Beckett's Creek subwatershed study (City of Ottawa, 2023b).

Further to this, the proposed septic system design has taken into consideration the potential for effluent short-circuiting to the adjacent drainage ditch and, ultimately, the downstream watercourse during high-volume rainfall events and freshet conditions. As outlined in the hydrogeological review completed by GEMTEC under separate cover, the advanced treatment

system incorporates storage and pressurized distribution to a shallow buried trench, with effluent delivered in small doses at regular intervals to attenuate peak flows and limit the potential for surcharge. In addition, the system design includes grading away from nearby drainage features, a clay barrier along the southern extent of the trench to reduce the potential for horizontal exfiltration toward the ditch, and trench grading intended to encourage surcharge flow into the downgradient subsurface rather than toward surface drainage features. Together, these measures are expected to reduce the likelihood of a preferential flow pathway between the septic system, the drainage ditch, and the downstream watercourse during wet-weather conditions.

The following mitigation measures are provided by GEMTEC in order to minimize or eliminate potential impacts to fish and fish habitat, as summarized above. General mitigation measures recommended for the protection of water quality and fish habitat include:

- Buffers should be comprised of a mixture of native and non-invasive, self-sustaining trees, shrubs, and tall grasses. A complete planting list will be provided as part of the Landscape Plan in support of the site plan application. The proposed planting area is illustrated on Figure A.5 of Appendix A.
- All future development and construction activities within the study area, including ditching, culvert installation, erosion and sediment control and storm water management should be completed in accordance with the Ontario Provincial Standard Specification 182 and OPSS 805.
- No in-water work is anticipated as part of this project.
- Site grading plans should direct runoff to roadside ditches and not towards adjacent surface water features.
- Silt fencing should be installed along all setbacks to provide visual demarcation of the setbacks and to prevent machinery encroachment and sediment transport.
- Install and maintain effective sediment and erosion control measures before starting work around water.
- Schedule work to avoid wet, windy and rainy periods.
- When native soil is exposed, sediment and erosion control work in the form of heavy-duty sediment fencing shall be positioned along the down gradient edge of any construction envelopes adjacent to waterbodies.
- Operate machinery on land, above the high-water mark, in a manner that minimizes disturbance to the banks and bed of the watercourse.
- In order to protect fish habitat from contamination, it is recommended that all machinery be maintained in good working condition and that all machinery be fueled a minimum of 30 m from the high-water mark.
- Any temporary storage of aggregate material shall be set back from the water’s edge by no less than 40 m and be contained by heavy-duty silt fencing.
- Maintain as much permeable surface area as possible in future development plans to limit the generation of stormwater runoff.

Additional tree plantings along the two drainage ditches on-site are not feasible due to the proximity of this area to the building on-site. Due to the nature of the building (poultry barn), additional vegetation plantings adjacent to the building, have the potential to attract rodents and mammals which can be detrimental to the operation of the facility (if they were to enter the facility). To compensate for this, additional tree plantings are proposed to occur along the Jules Potvin Municipal Drain adjacent to the existing laneway, in order to provide shade and cooling effects to the drain, and any inputs from the drainage ditches. Fast-growing, large canopy trees, that do not produce mast (to avoid attracting rodents/mammals) such as Manitoba maple, American elm, ash family (red ash or white ash), and the poplar, aspen and cottonwood family (trembling aspen, eastern cottonwood, and largetooth aspen) are recommended. Trees that fruit (e.g. apples, cherries, hawthorns, etc.) or produce edible nuts (e.g. oaks, walnuts, hickories, sugar maple, etc.) should be avoided to avoid attracting rodents.

7.2 Species at Risk

Based on the findings of the impact assessment in Section 6, the proposed project is not anticipated to result in direct adverse effects to protected species or protected habitat as defined under the Act. As such, registration of project activities in the Species Conservation Registry is not anticipated to be required at this time. Should project design, construction methods, or applicable regulations change, the need for registration or permitting would be re-evaluated.

General mitigation measures anticipated for the protection of species at risk include;

- Vegetation removal should occur outside of the combined wildlife active season, of March 15 – November 30, of any given year, for the protection of bats, turtles, and birds.
- All construction staff working on-site should be provided SAR training to identify species at risk which a potential to occur on-site including SAR bats. Training will also outline the stop work procedures and MECP reporting/consultation prior to resuming work.
- During construction if any PSO is identified on-site, all work should stop and a qualified professional and the MECP should be contacted for next steps. SAR sightings should be reported to the MECP and the NHIC.
- Following construction completion, property owners will be provided with or access to information and awareness packages for SAR that have the potential to occur on the property. Information and awareness packages will include information on species identification, life-history, and habitat use for all species at risk with a potential to occur on-site, including PSO bats. Information packages will also include contact/reporting options to the MECP and NHIC is species are encountered.

Species specific mitigation measures anticipated to be implemented are discussed in the subsections below.

7.2.1 Eastern Red Bat, Eastern Small-footed Myotis, Hoary Bat, Little Brown Myotis, Silver-haired Bat & Tri-colored Bat

No protected habitat for SAR bats had been identified within the on-site forested communities given that the forest habitat on-site is not anticipated meet the requirements to support bat maternity colonies. The following species-specific mitigation measures are anticipated at a minimum, and are expected to be implemented to avoid contravention of the SCA:

- As no critical habitat (i.e. overwintering caves or crevasses, or maternity roosts) were identified within the project area, in accordance with MECP best management practices, to protect roosting and foraging bats, any further tree clearing as required shall take place outside of the spring and summer active season (typically March 15 to November 30), when bats are more likely to be using forest habitat.
- Impacts to snag trees, or vegetation removal within the active season will require consultation with the MECP to determine whether a registration or permit maybe required.

7.2.2 Schedule 1 SARA Migratory Birds

Schedule 1 threatened or endangered species listed on the MBCA, receive the protections of the general prohibitions listed in SARA.

To ensure compliance with SARA, the following avoidance measures are provided for the protection of migratory birds:

- Do not kill, harm, harass, capture or take a migratory bird listed in Schedule 1 of SARA as endangered, threatened or extirpated;
- Do not possess, collect, buy, sell or trade a migratory bird listed in Schedule 1 of SARA as endangered, threatened or extirpated; and
- Do no damage or destroy the residence (i.e. nest) or one or more individuals of a migratory bird listed in Schedule 1 of SARA as endangered, threatened.
- Vegetation removal should occur outside of March 15 - November 30 to avoid the key breeding bird period and bat summer active season. The timing windows provides protection of migratory birds, roosting bats and avoids contravention of the Migratory Bird Convention Act and Species Conservation Act. If vegetation clearing activities must take place during the aforementioned timing window than a nest and roost survey shall be conducted by a qualified professional.

7.3 Wildlife

The following avoidance and mitigation measures are provided in effort to minimize impacts to on-site and off-site wildlife:

- To protect wildlife during construction, construction should be completed in accordance with the best practices outlined in Protocols for Wildlife Protection During Construction, from the City of Ottawa (Ottawa, 2015).
- Active nests for migratory birds (including species of special concern) are protected under the Migratory Birds Convention Act. If an active nest from a migratory bird is observed it may not be disturbed, disrupted, removed or destroyed until the nest is no longer active (i.e. birds have fledged, or nest is abandoned).
- Vegetation removal should occur outside of March 15 to November 30 to avoid the key breeding bird period, active turtle season, and bat summer active season. The timing windows provides protection of migratory birds, SAR turtles, roosting bats and avoids contravention of the Migratory Bird Convention Act and Species Conservation Act. If vegetation clearing activities must take place during the aforementioned timing window than a nest survey and site sweep shall be conducted by a qualified professional to ensure no impacts to birds or turtles. If vegetation removal has the potential to impact SAR bats (i.e. vegetation removal within contiguous forested tracts) consultation with the MECP is required to determine whether the project will require an authorization.
- Installation of silt fence barriers around the entire development envelope to prohibit the emigration of wildlife into the construction area, silt fencing should be checked daily and following each precipitation event.
- Perform daily pre-work sweeps of the construction area to ensure no species at risk are present and to remove any wildlife from inside the construction area.
- Should any species at risk be discovered throughout the course of the proposed works, the species at risk biologist with the local MECP district shall be contacted immediately and operations ceased to avoid any negative impacts to species at risk or their habitat until further direction is provided by the MECP.

7.4 Best Practice Measures for Mitigation of Cumulative Impacts

The following best practice measures are provided for the mitigation of cumulative impacts resulting from general construction and development activities;

- To protect trees identified to be retained during construction, the Critical Root Zone (CRZ) should be identified and fenced. The CRZ is defined as 10 cm from the base of the tree for every centimetre in diameter of the tree trunk measured at breast height.
- Maintain as much permeable surface as possible in future development plans to minimize the generation of stormwater runoff.

- The proposed planting area should consider fast-growing, large canopy trees, that do not produce mast (to avoid attracting rodents/mammals) including disease-resistant American elm and suitable poplar/aspen/cottonwood species such as trembling aspen, eastern cottonwood, and largetooth aspen are recommended. Trees that fruit (e.g. apples, cherries, hawthorns, etc.) or produce edible nuts (e.g. oaks, walnuts, hickories, sugar maple, etc.) should be avoided to avoid attracting rodents.

7.5 Beckett's Creek Subwatershed Study

As the site contains the Headwater Drainage Features (HDFs), watercourses or wetlands, accordingly BMPs relating to watercourse buffers and stream restoration apply to the proposed development. As outlined by Beckett's Creek Subwatershed BMPs, the recommended setback of 30 metres and maintenance of a vegetated buffer, including plantings of native woody, riparian vegetation should be adhered to where possible. The 30 m setback and proposed plantings prescribed for the protection of fish habitat will satisfy BMP outlined in the Beckett's Creek Subwatershed study.

8.0 CONCLUSIONS

The proposed project supported by this EIS is a proposed Site Plan Control application for the 1.7 ha subject property, addressed as 3043 Dunning Road, Ottawa, Ontario. The Site Plan Control application would require an adjustment of land use to an Agricultural Special Exception Zone, to permit future agricultural use on-site.

Based on the results of the impact analysis, impacts to the natural environment are anticipated to be negligible. Provided that mitigation measures recommended in Section 7 are implemented as proposed, no significant residual negative impacts are anticipated from the proposed future project.

Following review of the information pertaining to the natural heritage features of the site, the following general conclusions are provided by GEMTEC in regards to the Environmental Impact Statement.

- No significant negative impacts to natural heritage features identified on-site, including significant wildlife habitat, from future development are anticipated.
- The proposed project complies with the natural heritage policies of the Provincial Planning Statement.
- The proposed development complies with the natural heritage policies of the City of Ottawa Official Plan.

9.0 LIMITATION OF LIABILITY

This report and the work referred to within it have been undertaken by GEMTEC Consulting Engineers and Scientists Ltd (GEMTEC), and prepared for Laplante Poultry Farms Ltd. and is intended for the exclusive use of Laplante Poultry Farms Ltd.. This report may not be relied upon by any other person or entity without the express written consent of GEMTEC, Laplante Poultry Farms Ltd.. Nothing in this report is intended to provide a legal opinion.

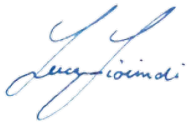
The investigation undertaken by GEMTEC with respect to this report and any conclusions or recommendations made in this report reflect the best judgements of GEMTEC based on the site conditions observed during the investigations undertaken at the date(s) identified in the report and on the information available at the time the report was prepared.

This report has been prepared for the application noted and it is based, in part, on visual observations made at the site, all as described in the report. Unless otherwise stated, the findings contained in this report cannot be extrapolated or extended to previous or future site conditions, or portions of the site that were unavailable for direct investigation.

Should new information become available during future work or other studies, GEMTEC should be requested to review the information and, if necessary, re-assess the conclusions presented herein.

We trust this report provides sufficient information for your present purposes. If you have any questions concerning this report, please do not hesitate to contact our office.

Sincerely,



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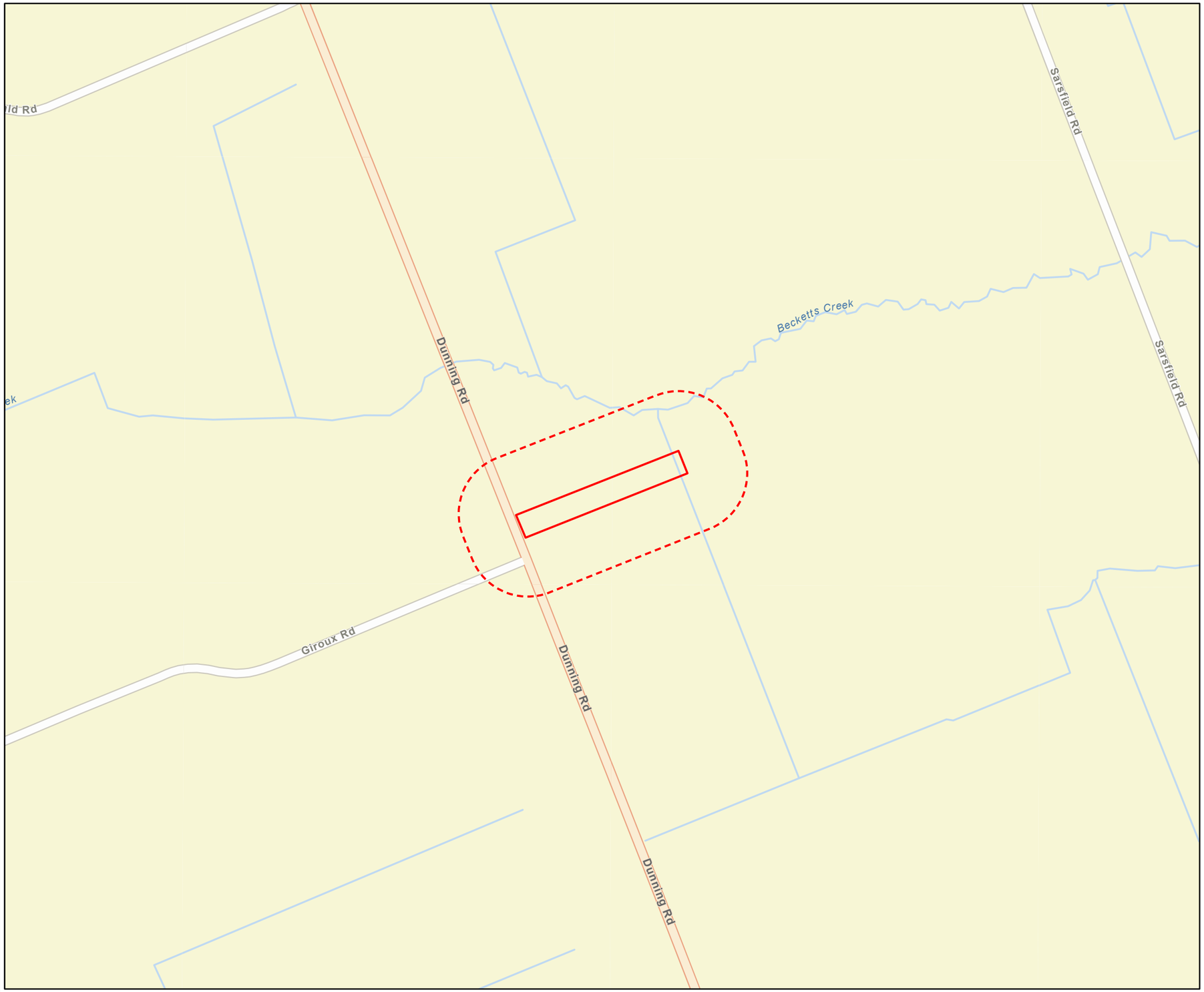
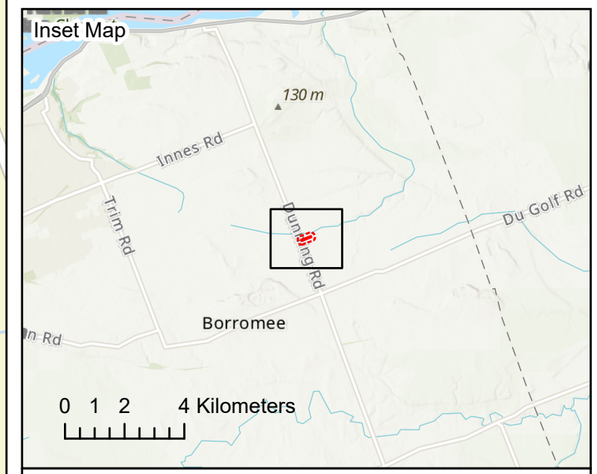
APPENDIX A

Report Figures
Figure A.1 – Site Location
Figure A.2 – Site Layout
Figure A.3 – Vegetation Communities
Figure A.4 – Natural Heritage Features
Figure A.5 – Development Plan
Figure A.6 – Mitigation Measures



Legend

- Property Boundary
- Study Area



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1:8,000
0 60 120 240 360 480 Meters

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Client:	Project:
Laplante Poultry Farms Ltd.	100117.056

Location
3043 Dunning Road
Ottawa, Ontario

Drwn By:	Chkd By:	Site Location
L.F.	T.W.	

Date: June 2026	Rev.	Figure: A.1
	0	

Coordinate System: NAD 1983 UTM Zone 18N
Service Layer Credits: World Street Map: Esri Community Maps Contributors, City of Ottawa, Province of Ontario, Ville de Gatineau, Esri Canada, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, NRCan, Parks Canada
World Topographic Map: Province of Ontario, Esri Canada, Esri, TomTom, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, USDA, NRCan, Parks Canada

Legend

- Property Boundary
- Study Area
- Drainage Ditch
- Watercourse

Scale

1:2,000

0 15 30 60 90 120 Meters

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Client: Laplante Poultry Farms Ltd.

Project: 100117.056

Location: 3043 Dunning Road
Ottawa, Ontario

Drwn By: L.F.

Chkd By: T.W.

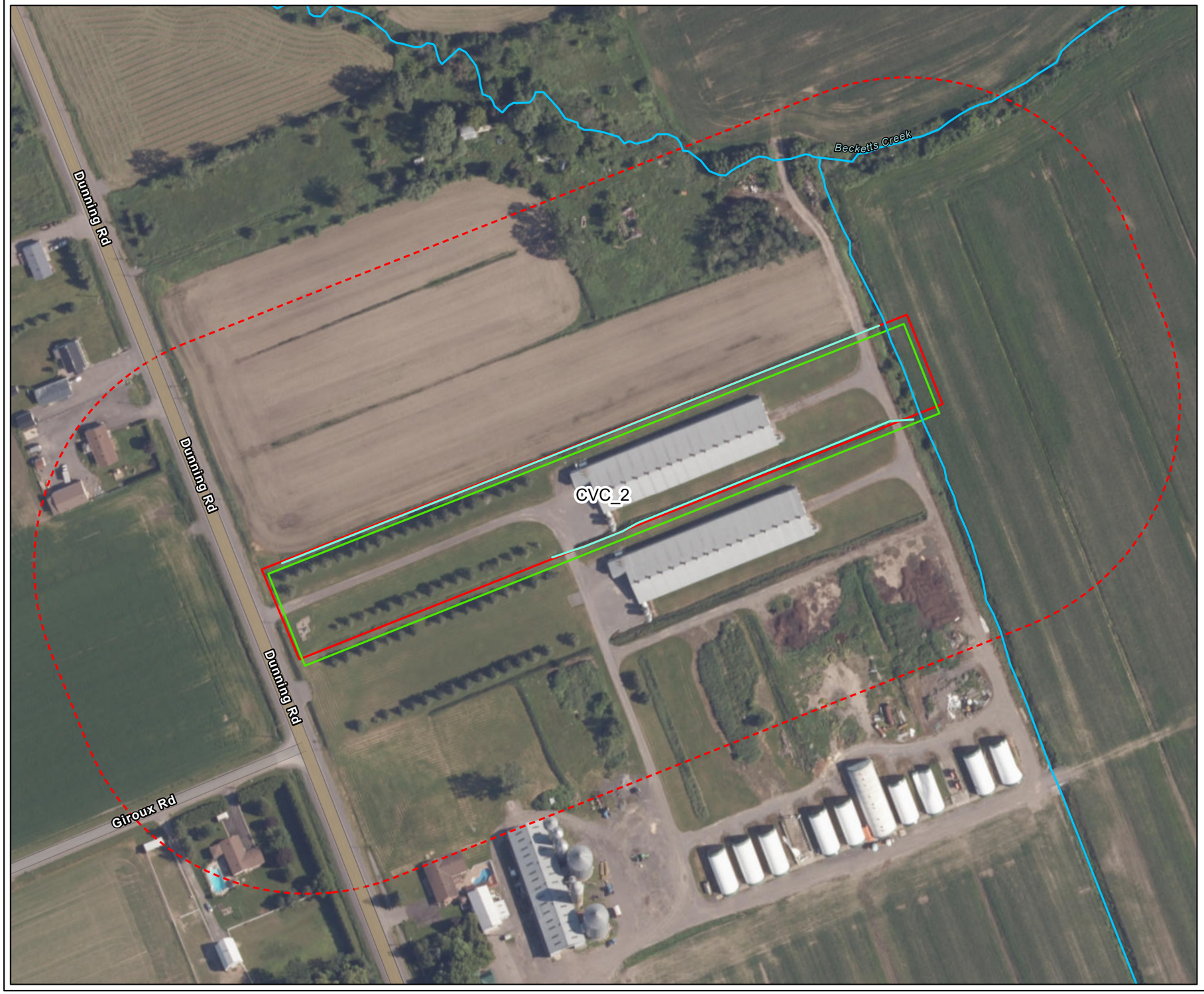
Site Layout

Date: June 2026

Rev. 0

Figure: A.2

Coordinate System: NAD 1983 UTM Zone 18N
Service Layer Credits: City of Ottawa 2022 Imagery:
Hybrid Reference Layer: Esri Community Maps Contributors, City of Ottawa, Province of Ontario, Ville de Gatineau, Esri Canada, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, NRCan, Parks Canada



Legend

- Property Boundary
- Study Area
- Drainage Ditch
- Watercourse
- Vegetation Community

CVC_2 - Commercial Light Industry

Scale
1:2,000
0 15 30 60 90 120 Meters

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Client:	Project:
Laplante Poultry Farms Ltd.	100117.056

Location
3043 Dunning Road
Ottawa, Ontario

Drwn By:	Chkd By:	
L.F.	T.W.	Vegetation Communities

Date: June 2026	Rev.	Figure: A.3
	0	

Coordinate System: NAD 1983 UTM Zone 18N
Service Layer Credits: City of Ottawa 2022 Imagery:
Hybrid Reference Layer: Esri Community Maps Contributors, City of Ottawa, Province of Ontario, Ville de Gatineau, Esri Canada, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, NRCan, Parks Canada

Legend

- Property Boundary
- Study Area
- Drainage Ditch
- Watercourse

Scale
1:2,000
0 15 30 60 90 120 Meters

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Client: Laplante Poultry Farms Ltd.

Project: 100117.056

Location: 3043 Dunning Road
Ottawa, Ontario

Drwn By: L.F.

Chkd By: T.W.

Natural Heritage Features

Date: June 2026

Rev. 0

Figure: A.4

Coordinate System: NAD 1983 UTM Zone 18N
Service Layer Credits: City of Ottawa 2022 Imagery:
Hybrid Reference Layer: Esri Community Maps Contributors, City of Ottawa, Province of Ontario, Ville de Gatineau, Esri Canada, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, NRCan, Parks Canada

Legend

- Property Boundary
- Study Area
- Drainage Ditch
- Watercourse

Development Footprint

- Existing
- Proposed

Scale

1:2,000

0 15 30 60 90 120 Meters

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Client: Laplante Poultry Farms Ltd.

Project: 100117.056

Location: 3043 Dunning Road, Ottawa, Ontario

Drwn By: L.F.

Chkd By: T.W.

Development Plan

Date: June 2026

Rev. 1

Figure: A.5

Coordinate System: NAD 1983 UTM Zone 18N
Service Layer Credits: City of Ottawa 2022 Imagery:
World Imagery: MRNF, Microsoft, Vantor

Legend

- Property Boundary
- Study Area
- Drainage Ditch
- Watercourse
- Development Footprint
- 30m Setback

Scale
1:2,000
0 15 30 60 90 120 Meters

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Client: Laplante Poultry Farms Ltd.

Project: 100117.056

Location: 3043 Dunning Road
Ottawa, Ontario

Drwn By: L.F.

Chkd By: T.W.

Mitigation Measures

Date: June 2026

Rev. 1

Figure: A.6

Coordinate System: NAD 1983 UTM Zone 18N
Service Layer Credits: City of Ottawa 2022 Imagery:
Hybrid Reference Layer: Esri Community Maps Contributors, City of Ottawa, Province of Ontario, Ville de Gatineau, Esri Canada, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, NRCan, Parks Canada

APPENDIX B

Site Photographs

Photograph 1 – Commercial – Light Industry (CVC_2)

Photograph 2 – Commercial – Light Industry (CVC_2)

Photograph 3 – Commercial – Light Industry (CVC_2)

Photograph 4 – Agricultural Building

Photograph 5 – Drainage Ditch

Photograph 6 – Drainage Ditch

Photograph 7 – Fish Habitat – Municipal Drain

Photograph 8 – Fish Habitat – Municipal Drain

GEMTEC Consulting Engineers and Scientists	Project Environmental Impact Statement 3043 Dunning Road, Geographic Township of Cumberland City of Ottawa, Ontario	**APPENDIX B** File No. 100117.056	**Site Photographs**

APPENDIX C

Report Summary Tables

TABLE C.1
SUMMARY OF WILDLIFE OBSERVED ON-SITE AND ADJCENT TO SITE

Common Name	Scientific Name	S-Rank	Evidence
Avian Species			
American crow	*Corvus brachyrhynchos*	S5	Heard calling
American tree sparrow	*Spizelloides arborea*	S5	Heard calling
Black-capped chickadee	*Poecile atricapillus*	S5	Heard calling
Blue jay	*Cyanocitta cristata*	S5	Heard calling
Canada goose	*Branta canadensis*	S5	Heard calling
Common raven	*Corvus corax*	S5	Heard calling
Dark-eyed junco	*Junco hyemalis*	S5	Heard calling
Song sparrow	*Melospiza melodia*	S5	Heard calling
Mammalian Species			
Eastern chipmunk	*Tamias striatus*	S5	Heard calling

Notes:
* Denotes a Species at Risk
Subnational Conservation Status Ranks:
S1 - Critically Imperilled, at very high risk of extirpation, very few populations or occurrences or very steep population decline
S2 - Imperiled, at high risk of extirpation, few populations or occurrences or steep population decline
S3 - Vulnerable, at moderate risk of extirpation, relatively few populations or occurrences, recent and widespread population decline
S4 - Apparently Secure, at a family low risk of extirpation, many populations or occurrences, some concern for local population decline
S5 - Secure, at very low or no risk of extirpation, abundant populations or occurrences, little to no concern for population decline
Qualifiers:
S#B - Conservation status refers to the breeding population of the species
S#N -Conservation status refers to the non-breeding population of the species
S#M - Migrant species, conservation status refers to the aggregating transient population of the species

TABLE C.2
SCREENING RATIONALE FOR HABITATS OF SEASONAL CONCENTRATION AREAS

Wildlife Habitat	Further Considered in EIS	Rationale
Waterfowl Stopover and Staging Areas	No	The site is mapped within a large patch of waterfowl staging area however, no suitable ELC codes on-site to support aquatic or terrestrial habitat.
Shorebird Migratory Stopover Area	No	Site does not contain appropriate ELC code to support shorebird migratory stopover habitat. High quality shorebird stopover habitat is extremely rare and typically has a long history of use.
Raptor Wintering Area	No	Site lacks appropriate combination of upland and forest ELC communities.
Bat Hibernacula	No	Cave and crevice habitat is not present on-site or within the study area.
Bat Maternity Colonies	No	No forested ecosites on-site or within study area to support bat maternity roost colonies.
Turtle Wintering Area	No	Observations from the 2023 field investigations revealed the on-site ditch and watercourse to have insufficient depths throughout the season to support turtle overwintering. No indicator turtle species were observed during the 2023 field investigation.
Reptile Hibernaculum	No	No structures such as large rock piles, bedrock outcrops, and cervices have been identified on-site. Further, no indicator snake species were observed during the 2023 field investigation.
Colonial Bird Nesting Habitat	No	No suitable habitat on-site or within study area to provide colonial bird nesting habitat.
Migratory Butterfly Stopover Area	No	The site is not located within 5 km of Lake Ontario and therefore does not meet the defining criteria.
Landbird Migratory Stopver Area	No	The site is not located within 5 km of Lake Ontario and therefore does not meet the defining criteria.
Deer Yarding Areas and Winter Congregation Areas	No	Suitable coniferous forest stands are not present on-site. As outlined in the the Signficant Wildlife Habitat Criteria Schedules (OMNRF, 2015) winter deer yards and deer managment are an MNRF responsibility. Based on review of publically available data from the OMNRF on Land Information Ontario Geo-hub, no Stratum I deer yards, Stratum II deer yards, or winter congregation areas have been identified on-site or within the broader study area. The closest deer yard to site is a patch of Stratum II deer yard located approximately 1.5km west of the site. The site does not fall within a City of Ottawa Natural Landscape Linkage or Core Natural Area.

TABLE C.3
SCREENING RATIONALE FOR SPECIALIZED WILDLIFE HABITATS

Specialized Wildlife Habitat	Further Considered in EIS	Rationale
Waterfowl Nesting Area	No	No suitable wetland habitat adjacent to upland habitat present on-site.
Bald Eagle and Osprey Nesting, Foraging and Perching Habitat	No	No suitable combination of forest habitat adjacent to open water habitat within study area.
Woodland Nesting Raptor Habitat	No	No forest habitat present within study area to support presence of woodland nesting raptor habitat.
Turtle Nesting Habitat	No	The site lacks suitable wetland habitat adjacent to open areas to provide turtle nesting habitat.
Seeps and Springs	No	Neither seeps nor springs were identified on-site.
Woodland Amphibian Breeding Habitat	No	The site lacks suitabl aquatic habitat adjacent to woodlands to support woodland amphibian breeding.
Wetland Amphibian Breeding Habitat	No	Site lacks suitable wetland habitat to support wetland amphibian breeding.
Woodland Area-Sensitive Bird Breeding Habitat	No	No contiguous forest habitat within study area to support woodland area-sensitive bird breeding habitat.

TABLE C.4
SCREENING RATIONALE FOR HABITATS OF SPECIES OF CONSERVATION CONCERN

Habitats for Species of Conservation Concern	Further Considered in EIS	Rationale
Marsh Breeding Bird Habitat	No	No suitable wetland habitat present on-site to support marsh breeding bird habitat.
Open Country Breeding Bird Habitat	No	No suitable meadow or field habitat within the study area to support open country breeding bird habitat.
Shrub/Early Successional Breeding Bird Habitat	No	No suitable cultural thicket, shrub or woodland habitat within study area to support succesion breeding bird habitat.
Terrestrial Crayfish Habitat	No	Terrestrial crayfish are only found within southwestern Ontario (MNRF, 2012).
Special Concern and Rare Wildlife Species	No	The NHIC indicates the presence of wood thrush within 1 km of site, however no suitable habitat on-site. No other publicly available databases contained occurrence data for species of special concern within 1 km of site. No species of special concern were observed on-site.

TABLE C.5
SCREENING RATIONALE FOR ANIMAL MOVEMENT CORRIDORS

Animal Movement Corridor	Further Considered in EIS	Rationale
Amphibian Movement Corridor	No	No confirmed wetland amphibian breeding habitat has been identified on-site.
Deer Movement Corridor	No	No winter deer yards have been identified on-site by the OMNRF.

TABLE C.6
SCREENING RATIONALE FOR POTENTIAL SPECIES AT RISK ON-SITE OR WITHIN STUDY AREA

Species	SCA Status (PSO Listing)	COSSARO Status	MBCA	SARA Schedule 1 Status	Habitat Use	Probability of Occurrence On-Site and in Study Area	Rationale
Avian							
Bank Swallow	Not Protected	THR	Yes	THR	Colonial nester, burrows in eroding silt, to sand banks, sand pit walls, etc.	Low	No suitable sandy bank or pit habitat present on-site.
Barn Swallow	Not Protected	SC	Yes	THR	Nests in barns and other semi-open structures. Forages over open fields and meadows.	Low	Suitable nesting habitat may be present on-site and within the study area. No occurrence records within 1 km of site. Species not encountered during the field investigations.
Bobolink	Not Protected	THR	Yes	THR	Nests in dense tall grass fields and meadows, low tolerance for woody vegetation.	Moderate	Suitable grassland habitat may be present in greater study area. Adjacent agriculture to the north planted with corn and soy. NHIC indicates occurrence within 1 km of site. Species not encountered during field investigation.
Canada Warbler	Not Protected	SC	Yes	THR	Prefers wet forests with dense shrub layers	Low	No suitable wet forest with dense shrub layer present on-site.
Cerulean Warbler	Not Protected	THR	Yes	END	Prefers mature deciduous forest habitat.	Low	No suitable mature deciduous forest present within the study area.
Chimney Swift	Not Protected	THR	Yes	THR	Nests in traditional-style open brick chimneys.	Low	Suitable anthropogenic structures may be present within study area. No occurrence records within 1 km of site. Species not encountered during field investigation.
Common Nighthawk	Not Protected	SC	Yes	SC	Nests in a variety of open sites: beaches, fields and grave rooftops.	Low	Suitable open habitat present on-site within the cultural meadow. No occurrence records within 1 km of site. Species not encountered during the field investigations.
Eastern Meadowlark	Not Protected	THR	Yes	THR	Nests and forages in dense tall grass fields and meadows, higher tolerance to woody vegetation.	Moderate	No suitable grassland habitat within study area to support species presence. Adjacent agriculture planted with corn and soy. NHIC and eBird indicate occurrence record on-site. Species not encountered during the field investigation.
Eastern Whip-poor-will	Not Protected	SC	Yes	THR	Nests on the ground in open deciduous or mixed woodlands with little underbrush, and bedrock outcrops.	Low	No woodlands on-site to support species presence.
Eastern Wood-Pewee	Not Protected	SC	Yes	SC	Woodland species, often found near clearings and edge habitat.	Low	Potentially suitable wooded hedgerow habitat present on-site and within the study area. No occurrence records within 1 km of site. Species was not encountered during the field investigation.
Evening Grosbeak	Not Protected	SC	Yes	SC	Nests in trees or large shrubs, preference to large coniferous forests, will use deciduous. Overwinters in Ottawa.	Low	Site does not provide suitably sized wooded habitat to support Evening grosbeak presence. Recent eBird occurrence record on-site. Species was not encountered during the field investigation.
Golden Eagle	END	END	No	Not Listed	Nests on remote, bedrock cliffs, overlooking large burns, lakes or tundras	Low	No suitable cliff habitat adjacent to open field habitat present on-site.
Golden-winged Warbler	Not Protected	SC	Yes	THR	Ground nesting, edge species. Breeds in successional scrub habitats surrounded by forests.	Low	No suitable scrub habitat present within study area.
Grasshopper Sparrow	Not Protected	SC	Yes	SC	Ground-nesting grassland species. Prefers fields with low sparse vegetation on sand, alvars or poor soils.	Low	Suitable grassland habitat may be present in greater study area. Adjacent agriculture to the north planted with corn and soy. NHIC indicates occurrence within 1 km of site. Species not encountered during field investigation.
Henslow's Sparrow	Not Protected	END	Yes	END	Prefers open, moist, tallgrass fields.	Low	Suitable open, moist, tallgrass fields are not present within the study area or on-site.
Least Bittern	Not Protected	THR	Yes	THR	Prefers marshes, shrub swamps, usually near cattails	Low	No suitable wetland habitat on-site.
Lesser Yellowlegs	THR	THR	Yes	Not Listed	Ottawa Migrant. Breeding is limited to Alaska and northern Canada. During winter and migration usess coastal salt marshes, estuaries and ponds, lakes, freshwater wetlands, anthropogenic wetlands.	Low	No suitable wetland habitat on-site.
Loggerhead Shrike	Not Protected	END	Yes	END	Prefers grazed pastures with short grass and scattered shrubs, especially hawthorn.	Low	Site lacks suitable grazed pasture habitat conditions. Prefered hawthorn vegetation not observed during the field investigations.
Olive-sided Flycatcher	Not Protected	SC	Yes	SC	Forest edge species, forages in open areas from high vantage points in trees.	Low	Suitable wooded hedgerow habitat present on-site. No occurrence records within 1 km of site. Species not encountered during the field investigations.
Peregrine Falcon	Not Protected	SC	No	Not Listed	Nests on cliffs near water and on more anthropogenic structures such as tall buildings, bridges, and smokestacks.	Low	No suitable cliff habitat occurs on-site or within study area.
Red-headed Woodpecker	Not Protected	END	Yes	END	Prefers open deciduous woodlands, particularly those dominated by oak and beech.	Low	No suitable forest habitat on-site to support species presence.
Rusty Blackbird	Not Protected	SC	No	SC	Wet wooded or shrubby areas (nests at edges of Boreal wetlands)	Low	Site lacks suitable wet habitat to support rusty blackbird presence.
Short-eared Owl	THR	THR	No	SC	Ground nester, prefers open habitats, fields and marshes.	Low	Potentially suitable open field habitat present on-site. No occurrence records within 1 km of site. Species not encountered during the field investigations.
Wood Thrush	Not Protected	SC	Yes	SC	Prefers deciduous or mixed woodlands.	Low	Site does not provide suitably sized wooded habitat to support wood thrush presence. NHIC occurrence record within 1 km of site. Species was not encountered during the field investigation.
Mammalian							
Eastern Red Bat	END	END	N/A	Not Listed	Roosts in tree foliage; overwinters in leaf litter. Do not roost in anthropogenic structures.	Moderate	Potentially suitable forested habitat on-site to support species presence.
Eastern small-footed Myotis	END	END	N/A	Not Listed	Roosts in rock crevices, barns and sheds. Overwinters in abandoned mines. Summer habitats are poorly understood in Ontario, elsewhere prefers to roost in open, sunny rocky habitat and occasionally in buildings (Humphrey, 2017).	Moderate	Potentially suitable forested habitat on-site to support species presence.
Hoary Bat	END	END	N/A	Not Listed	Roosts in tree foliage; overwinters in leaf litter. Do not roost in anthropogenic structures.	Moderate	Potentially suitable forested habitat on-site to support species presence.
Little Brown Myotis	END	END	N/A	END	Maternal colonies known to use buildings, may also roost in trees during summer. Affinity towards anthropogenic structures for summer roosting habitat and exhibit high site fidelity (Environment Canada, 2015).	Moderate	Potentially suitable forested habitat on-site to support species presence.
Northern myotis (Northern Long-eared Bat)	END	END	N/A	END	Occurs throughout eastern North America in associated with Boreal forests. Roosts mainly in trees, occasionally anthropogenic structures during summer (Environment Canada, 2015). Overwinters in caves and abandoned mines.	Low	Species affinity is for Boreal forests and rarely roosts in anthropogenic structures.
Silver-haired Bat	END	END	N/A	Not Listed	Roosts in tree foliage. Overwinters in in mines, rock crevices, trees, and snags. May use anthropogenic structures for roosting.	Moderate	Potentially suitable forested habitat on-site to support species presence.
Tri-colored Bat	END	END	N/A	END	Roosts in trees, rock crevices and occasionally buildings during summer. Overwinters in caves and mines.	Moderate	Potentially suitable forested habitat on-site to support species presence.

TABLE C.6
SCREENING RATIONALE FOR POTENTIAL SPECIES AT RISK ON-SITE OR WITHIN STUDY AREA

Species	SCA Status (PSO Listing)	COSSARO Status	MBCA	SARA Schedule 1 Status	Habitat Use	Probability of Occurrence On-Site and in Study Area	Rationale
Reptilian							
Blanding's Turtle	THR	THR	N/A	END	Inhabits quiet lakes, streams and wetlands with abundant emergent vegetation. Frequently occurs in adjacent upland forests.	Low	No suitable aqautic habitat on-site to support Blanding's turtle. No occurrence records within 1 km of site. Species not encountered during the field investigations.
Eastern Musk Turtle	Not Protected	SC	N/A	SC	Wetlands. Highly aquatic habtiats.	Low	No suitable aqautic habitat on-site to support Eastern musk turtle. No occurrence records within 1 km of site. Species not encountered during the field investigations.
Eastern Ribbonsnake	Not Protected	SC	N/A	SC	Marshy edfes of wetlands and watercourses.	Low	No suitable wetland or riparian habitat on-site to support Eastern ribbonsnake. No occurrence records within 1 km of site. Species not encountered during the field investigations.
Northern Map Turtle	Not Protected	SC	N/A	SC	Highly aquatic species, found only in lakes and large rivers.	Low	No suitable aqautic habitat to support Northern map turtle. No occurrence records within 1 km of site. Species not encountered during the field investigations.
Snapping Turtle	Not Protected	SC	N/A	SC	Highly aquatic species, found in a wide variety of wetlands, water bodies and watercourses.	Low	No suitable aqautic habitat on-site to support snapping turtle. No occurrence records within 1 km of site. Species not encountered during the field investigations.
Spotted Turtle	END	END	N/A	END	Secretive wetland species.	Low	No suitable wetland habitat on-site. No occurrence records for species within 1 km of site. Species not encountered during the field investigations.
Wood Turtle	END	END	N/A	THR	Primarily terrestrial forest species. Associated with clear, gravelly streams.	Low	Site lacks suitable combination of stream and terrestial forest habitat. No occurrence records within 1 km of site. Species not encountered during the field investigaions.
Plants							
American Ginseng	THR	THR	N/A	END	Rich, moist, relatively mature deciduous forests.	Low	Species was not observed during site investigation. No occurrence data for species within study area. Suitable habitat not present within the study area.
Black Ash	END	END	N/A	Not Listed	Predominantly a wetland species, found in swamps, floodplains and fens.	Low	Species was not observed during site investigation. No occurrence data for species within study area. Suitable habitat not present within the study area.
Butternut	END	END	N/A	END	Inhabits a wide range of habitats including upland and lowland deciduous and mixed forests.	Low	Species was not observed during site investigation. No occurrence data for species within study area. Suitable habitat not present within the study area.
Lichens							
Pale-bellied Frost Lichen	END	END	N/A	END	Grows on the bark of hardwood trees such as white ash, black walnut, American elm and ironwood. Can also be found growing on fence posts and boulders.	Low	Species believed to be extirpated from the study area.
Fish							
American Eel	END	END	N/A	Not listed	Primarily nocturnal, hiding in soft substrate or submerged vegetation during the day.	Low	No suitable aquatic habitat present on-site to support species presence
Bridle Shiner	Not Protected	SC	N/A	SC	Prefers clear water with abundant vegetation over silty or sandy vegetation	Low	No suitable aquatic habitat present on-site to support species presence
Cutlip Minnow	END	THR	NA	SC	Prefers clear, slow-moving rivers and creeks with rocky or gravel substrates. Males build gravel nests under banks, logs, or near large rocks.	Low	No suitable aquatic habitat present on-site to support species presence
Channel Darter	Not Protected	SC	N/A	SC	Prefers clear water with abundant vegetation over silty or sandy vegetation	Low	No suitable aquatic habitat present on-site to support species presence
Lake Sturgeon	END	END	N/A	Not Listed	Large lakes and rivers. Forages in cool water, 4-9m deep over soft substrates. Spawns in shallower, fast-flowing areas over rocks or gravel.	Low	No suitable aquatic habitat present on-site to support species presence
Northern Brook Lamprey	Not Protected	SC	N/A	SC	Prefers shallow areas with warm water. Larvae burrows in soft substrate for up to 7 years.	Low	No suitable aquatic habitat present on-site to support species presence
Northern Sunfish	Not Protected	SC	N/A	SC	Inhabits clear, warm, slow-moving streams and shallow lakes with abundant aquatic vegetation and sand or gravel substrates.	Low	No suitable aquatic habitat present on-site to support species presence
River Redhorse	Not Protected	SC	N/A	SC	Prefers fast-flowing, clear rivers over rocky substrate	Low	No suitable aquatic habitat present on-site to support species presence
Silver Lamprey	Not Protected	SC	N/A	SC	Larvae live 4-7 years in burrows, preference to soft substrate.	Low	No suitable aquatic habitat present on-site to support species presence
Insects							
American Bumble bee	Not Protected	SC	N/A	SC	Inhabits open grasslands, meadows, and agricultural areas. Nests underground in abandoned rodent burrows and forages on a variety of flowering plants.	Low	Suitable foraging habitat present on-site. Species not observed during the field investigation. No occurrence record for species within 1 km of site.
Bogbean Buckmoth	END	END	N/A	END	Preferred food plant is bog bean, present in a variety of wetlands including bogs, swamps and fens.	Low	No suitable wetland habitat within the study area. Prefered food species not observed. Species not observed during site investigations.
Gypsy Cuckoo Bumble Bee	END	END	N/A	END	Inhabits a wide range of habitats: open meadows, agricultural and urban areas, boreal forests and woodlands.	Low	Currently the only known population is in Pinery Provincial Park.
Monarch Butterfly	Not Protected	SC	N/A	END	Caterpillars require milkweed plants confined to meadow and open areas. Adult butterflies use more diverse habitat with a variety of wildflowers	Low	Suitable foraging habitat present on-site. Milkweed observed during the field investigations. No occurrence record for species within 1 km of site.
Mottled Duskywing	END	END	N/A	END	Larval food plant (New Jersey Tea) found in sandy areas and alvars.	Low	Sandy areas and alvars not present in the study area.
Nine-spotted Lady Beetle	END	END	N/A	END	Habitat generalist	Low	No recent occurrence reports in the area, thought to be locally extirpated
Rapids Clubtail	THR	THR	N/A	END	Inhabits large, clear rivers with fast-moving water and rocky or gravelly substrates. Larvae develop in riffle sections among submerged rocks and debris.	Low	No suitable riparian habitat on-site.
Rusty-patched Bumble Bee	END	END	N/A	END	Habitat generalist	Low	Currently the only known population is in Pinery Provincial Park.
Transverse Lady Beetle	END	END	N/A	SC	Habitat generalist	Low	No new records of Traverse Lady Beetle in Ontario, species thought to be absent in former habitats.
West Virginia White Butterfly	Not Protected	SC	N/A	Not Listed	Requires mature moist deciduous woods with larval host plant toothwort.	Low	No suitable habitat within the study area.
Yellow-banded Bumble Bee	Not Protected	SC	N/A	SC	Habitat generalist; mixed woodlands, variety of open habitat	Low	Suitable foraging habitat present on-site. Species not observed during the field investigation. No occurrence record for species within 1 km of site.

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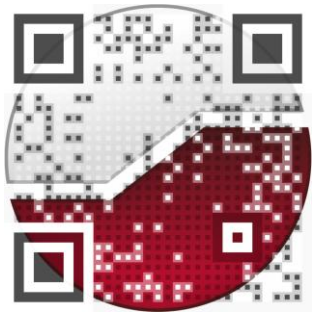

civil	civil
geotechnical	géotechnique
environmental	environnementale
field services	surveillance de chantier
materials testing	service de laboratoire des matériaux

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