

## THE CORPORATION OF THE CITY OF BURLINGTON

# Major Transit Station Areas Land Use Compatibility Study

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# **Executive Summary**

Dillon Consulting Limited (Dillon) was retained by the City of Burlington (the City) to review land use compatibility for the Burlington GO (including the Downtown Burlington Urban Growth Centre [UGC]), Aldershot GO and Appleby GO Major Transit Station Areas (MTSAs), in Burlington, Ontario. This Land Use Compatibility Study includes consideration of nuisance contaminants, including odour, dust, noise, and vibration, as well as other air quality contaminants, from industry and transportation infrastructure (road and rail). This study will inform the development of the Area-Specific Plans (ASPs) for the MTSAs, as part of the Area-Specific Planning Project.

This study was made in consideration of guidelines, policies, regulations, and acts made by the City of Burlington, Halton Region, the Ministry of the Environment, Conservation and Parks (MECP), the Railway Association of Canada, and the Federation of Canadian Municipalities. The high-level review that was completed is based on publicly-available information and best practices for land use compatibility assessments, as a screening level review to identify areas with the potential for compatibility issues for sensitive land uses.

This study looked at industries and transportation corridors within 1,000 m of each MTSA (the MTSA Study Area). The MTSA boundaries defined in the Recommended Preliminary Preferred Precinct Plans (December 2021) were applied. The key findings of the Land Use Compatibility Study are as follows:

- The Burlington GO UGC/MTSA, Aldershot GO MTSA and Appleby GO MTSA are within the Potential Influence Area of several existing industries which are potentially incompatible with sensitive lands due to potential air quality and noise impacts.
- The UGC/MTSAs are within the Recommended Minimum Separation Distance of a number of the industries mentioned above and inclusion of sensitive land uses on those portions of MTSAs should be avoided where possible due to potential air quality and noise impacts.
- The Aldershot GO MTSA and Appleby GO MTSA Study Areas have 3 and 6 existing industries, respectively, that meet the criteria of the most intensive class of industry based on existing activities located within the MTSA boundaries under the MECP's guidance for air and noise. There is also a vacant, industrially zoned property within the Appleby GO MTSA that permits uses consistent with the most intensive class of industry. There were no industries of this class identified for the Burlington GO UGC/MTSA Study Area.
- All UGC/MTSAs are intersected by the CN and/or GO Transit Oakville Subdivision rail line and are in proximity to Highway 403/QEW and multi-purpose and minor arterial roads. These transportation corridors have possible implications for noise, vibration and air quality.
- The MECP's guidance recommends that the introduction of any sensitive use (e.g. residential uses) through intensification requires technical studies to demonstrate compatibility before proceeding. This may include stationary noise studies, industrial vibration studies, air quality studies, transportation noise assessments, and transportation vibration assessments, as appropriate.



- A Terms of Reference for land use compatibility assessment, based on MECP guidelines and best practices, is recommended to be developed by the City to assist developers and their consultants in scoping and preparing a study, in support of a planning application to the City.
- The use of Class 4 area designation may help promote land use compatibility with respect to noise. Additionally, there are mitigation strategies such as at-source and/or at-receptor mitigation that can be utilized to promote compatibility.
- It is recommended that should the City wish to pursue the use of a Class 4 designation, the City should formalize the procedures for assessing Class 4 applications, including the requirement for a detailed noise impact assessment in accordance with NPC-300. The City should also consider developing a set of guidelines that would be applicable City-wide and would be supported by best practices to guide the use and application of a Class 4 designation.
- With respect to the Burlington GO UGC/MTSA and Aldershot GO MTSA, it is recommended that the ASPs include a policy stating that for any proposed development containing sensitive uses, a land use compatibility assessment shall be prepared in accordance with a Terms of Reference approved by the City, that considers applicable MECP guidelines and best practices, and demonstrates that the applicable land use compatibility requirements of the PPS (2020)<sup>1</sup> are met.
- With respect to the Burlington GO UGC/MTSA and Aldershot GO MTSA, the need to protect the
  operational and economic viability of industries expected to transition out of the MTSA still exists in
  the interim. When assessing land use compatibility between sensitive land uses and such industries,
  consideration should be given to both the full range of permitted uses as well as any known future
  operating plans.
- There are two options identified for the City when considering land use compatibility in the Appleby GO MTSA at the ASP level:
  - Option 1: A comprehensive land use compatibility study at the ASP level including assessments of air quality, noise and vibration impacts from existing and permitted industrial lands on proposed sensitive land uses; or,
  - Option 2: An ASP policy to require that land use compatibility is addressed at the development application stage through a site-specific land use compatibility assessment, in accordance with a Terms of Reference developed by the City and the applicable MECP guidelines and PPS (2020)<sup>1</sup> policies.
- The City can take one of two approaches for their role in the comprehensive land use compatibility study (Option 1) for the Appleby GO MTSA at the ASP level: Lead for Technical Analysis or Lead for Convening Stakeholders.
- The planning tools available to implement Option 1 or Option 2, for the Appleby GO MTSA at the ASP level, are an interim control by-law and holding provisions. The applicability of these tools in Option 2 is case specific.



<sup>&</sup>lt;sup>1</sup> Ministry of Municipal Affairs and Housing (2020). *Provincial Policy Statement*. Retrieved from: https://files.ontario.ca/mmah-provincial-policy-statement-2020-accessible-final-en-2020-02-14.pdf

• Given the potential for duplication of efforts at the comprehensive study stage (Option 1) and development application stage, barring strong support from industry and landowners for Option 1, Option 2 is recommended to address land use compatibility in the Appleby GO MTSA.



# 1.0 Introduction

## 1.1 Study Background and Purpose

Dillon Consulting Limited (Dillon) was retained by the City of Burlington (the City) to review land use compatibility from an air quality (dust, odour and other contaminants) and environmental noise and vibration perspective for the Burlington GO (including the Downtown Burlington Urban Growth Centre [UGC]), Aldershot GO and Appleby GO Major Transit Station Areas (MTSAs), in Burlington, Ontario. This Land Use Compatibility Study provides an overview of potential land use compatibility issues from industry and transportation infrastructure (road and rail) to inform the development of the Area-Specific Plans (ASPs) for the MTSAs, as part of the Area-Specific Planning Project.

The inclusion of the Burlington GO UGC/MTSA, Aldershot GO MTSA and Appleby GO MTSA in the Halton Region Official Plan protects them as locations for the development of higher density, mixed use communities. The MTSAs will accommodate intensification and residential uses where none existed before. Since some will continue to have employment uses and industrial uses within close proximity, land use compatibility must be considered when developing the Area-Specific Plans.

This Land Use Compatibility Study includes the following:

- An overview of the Burlington GO UGC/MTSA, Aldershot GO MTSA and Appleby GO MTSA Study Areas and the applicable planning context;
- A summary of the applicable guidelines, regulations, and planning documents applicable to assessing land use compatibility within the MTSAs from an air quality (dust, odour and other contaminants) and environmental noise and vibration perspective;
- A review of the industrial uses within the MTSAs and the potential for compatibility issues based on proximity to the MTSAs; and
- A framework for further technical studies to evaluate compatibility between existing industrial uses and individual future sensitive land uses.

From an air quality and noise perspective, sensitive land uses or sensitive receptors typically include: residential uses, schools, daycares, places of worship, health care facilities, and certain institutional uses such as hotels.



## **1.2 Background Reports**

As part of the original area-specific planning process, referred to as the "Mobility Hub Study", the following technical studies were completed by Wood Environment & Infrastructure Solutions, a Division of Wood Canada Limited (Wood):

- "Air Quality Assessment Report GO Mobility Hubs, ver.1.3" (the Air Quality Background Report), dated November 2021; and
- "Pre-Feasibility Noise and Vibration Study Burlington Mobility Hubs" (the Noise Background Report), dated August 2021.

The Air Quality Background Report and Noise Background Report (the Background Reports) were based on the Preferred Land Use Concepts developed during the Mobility Hubs Study.

A major purpose of the Noise Background Report was to identify the feasibility of introducing new sensitive land uses in proximity to existing stationary and transportation noise sources which exist within or outside the applicable Mobility Hub study areas. The purpose of the Air Quality Background Report was to determine potential effects of emissions from industrial and transportation sources which exist within or outside the applicable Mobility Hub study areas and to recommend mitigation measures where appropriate.

The Area-Specific Planning (ASP) Project is currently ongoing and is a continuation of the Mobility Hub Study, which was paused in 2019. This Land Use Compatibility Study is based on the Recommended Preliminary Preferred Precinct Plans (RPPP), dated December 2021, that have been prepared as part of the ASP Project, and MTSA boundaries that have been updated since the issuance of the Air Quality Background Report and the Noise Background Report. The Provincial Policy Statement (2020), which was issued following the completion of the original versions of the Background Reports, has also been considered in this report.

This Land Use Compatibility Study considers the land use inventories completed and the recommendations made in the Background Reports, as applicable.



# 2.0 **Description of the Study Area**

This section provides an overview of each of the MTSA Study Areas and the corresponding planning context for the subject lands.

## 2.1 **Overview**

The City of Burlington has three MTSAs centred around the GO Stations in Burlington: Burlington GO (including the Downtown Burlington UGC), Aldershot GO and Appleby GO as shown in **Figures A.1, B.1, and C.1** in the Appendix section.

The Study Area for each MTSA (the MTSA Study Area), also shown in **Figures A.1, B.1, and C.1**, is considered as the area extending approximately 1 km from the boundary of each respective MTSA boundary, based on guidance from the Ministry of the Environment, Conservation and Parks (MECP).

## 2.1.1 Burlington GO UGC/MTSA

The existing areas within and adjacent to the Burlington GO UGC/MTSA currently contain large-scale and/or auto-centric commercial uses as well as industrial uses. The Burlington GO MTSA also includes the Downtown Burlington Urban Growth Centre (UGC), identified through the Halton Region Official Plan Amendment 48 (ROPA 48). There are few existing residential uses within the Burlington GO MTSA/UGC, with the exception of the current construction of a high-rise residential building and some low-density residential properties. A copy of the Burlington GO UGC/MTSA Recommended Preliminary Preferred Precinct Plan (RPPP), dated December 2021, is shown in **Appendix D**. As per the RPPP, this UGC/MTSA includes ten distinct precincts which accommodate residential, commercial, cultural, recreational major office and other employment uses.

## 2.1.2 Aldershot GO MTSA

The existing area around the Aldershot GO station area comprises several established residential areas adjacent to the MTSA boundary as well as residential high-rise buildings located in the southwest portion of the MTSA. There are existing commercial and industrial uses within the MTSA, including extensive industrial sites. A copy of the Aldershot GO MTSA Recommended Preliminary Preferred Precinct Plan (December 2021) is provided in **Appendix D**. As shown in the RPPP, this MTSA includes five distinct precincts each accommodating a mix of residential, commercial and employment uses.



#### 2.1.3 Appleby GO MTSA

The existing area within the Appleby GO MTSA consists largely of employment uses north of the rail line including offices, manufacturing and industrial uses. The area south of the rail line is characterized by low and mid-rise residential development south of Fairview Street as well as industrial lands along the north side of Fairview Street, some of which are vacant or undeveloped in the area around the Appleby Line and Fairview Street intersection. A copy of the Appleby GO MTSA Recommended Preliminary Preferred Precinct Plan (December 2021) is shown in **Appendix D**. As per the RPPP, this MTSA includes six distinct precincts. Precincts north of the rail line will accommodate more intensive office and employment uses while supporting existing major facilities. Precincts south of the rail line will incorporate a mix of employment, residential and commercial uses.

## 2.2 Planning Context

The following documents were reviewed to provide planning context to the Land Use Compatibility Study:

- Halton Region Official Plan (Interim Office Consolidation November 4, 2022);
- Halton Region Land Use Compatibility (June 2014);
- City of Burlington Official Plan (April 2018);
- City of Burlington Zoning By-law 2020; and
- Bill 23, More Homes Built Faster Act, 2022.

#### 2.2.1 Halton Region Official Plan (Interim Office Consolidation November 4, 2022)

The Halton Region Official Plan (ROP) (Interim Office Consolidation November 4, 2022) includes Regional Official Plan Amendments (ROPAs) 48 and 49 which were approved by the Ministry of Municipal Affairs and Housing on November 10, 2021 and November 4, 2022, respectively.

ROPA 48 implements components of the Regional Urban Structure to establish a hierarchy of strategic growth areas in the ROP. ROPA 48 delineates the final boundaries for the MTSAs and establishes guiding policies to direct the development of Area-Specific Plans for MTSAs. It was the first amendment to be adopted by Regional Council as part of the Regional Official Plan Review.

ROPA 49 implements the Integrated Growth Management Strategy which considers how to accommodate growth in Halton Region to the year 2051. ROPA 49 is the second amendment to be considered by Regional Council as part of the Regional Official Plan Review and builds on the Regional Urban Structure defined by ROPA 48. The ROP guides land use planning within Halton Region and contains goals, objectives and policies to manage growth and development as well as social, economic and natural environments. In general, the ROP contains the following policies related to land use compatibility:

- Section 143(11) encourages local municipalities to permit land uses requiring minimal noise, vibration, odour and air pollution abatement measures adjacent to industrial, transportation and utility uses and to require proponents of development in those areas to do impact analysis and implement abatement to comply with Halton Region and MECP guidelines; and
- Section 79.3(12) states that it is the policy of Halton Region to ensure the long-term operational and economic viability of existing or planned major facilities, and achieve land use compatibility between major facilities and sensitive land uses within or adjacent to Strategic Growth Areas in accordance with Section 143(12) of the ROP by:
  - Requiring that such uses are planned and developed to avoid, or if avoidance is not possible, to minimize and mitigate any potential adverse effects from odour, noise and other contaminants, and, to minimize risk to public health and safety, and to ensure the long-term operational and economic viability of major facilities, in accordance with Provincial guidelines, standards and procedures;
  - Where avoidance is not possible, protecting the long-term viability of existing or planned industrial, manufacturing or other uses that are vulnerable to encroachment by ensuring that the planning and development of proposed adjacent sensitive land uses are only permitted if the following are demonstrated through appropriate studies in accordance with Provincial and Regional guidelines, standards and procedures:
    - i. there is an identified need for the proposed use;
    - ii. alternative locations for the proposed use have been evaluated and there are no reasonable alternative locations;
    - iii. adverse effects to the proposed sensitive land use are minimized and mitigated; and
    - iv. potential impacts to industrial, manufacturing or other uses are minimized and mitigated;
  - Requiring an air quality study based on Air Quality Impact Assessment Guidelines (to be established, as per Section 143(2.1)), is required for development proposals with sensitive land uses located within 30 m of a Major Arterial or Provincial Highway, or 150 m of a Provincial Freeway (defined in Map 3 of the ROP).



## 2.2.2 Halton Region Guidelines

The Ministry of Municipal Affairs and Housing's (the MMHA's) decision on ROPA 49 has removed references to the following Halton Region guidelines which are therefore no longer considered in the Land Use Compatibility Study:

- Land Use Compatibility Guidelines Regional Official Plan Guidelines (the LUC Guidelines);
- Air Quality Guidelines Regional Official Plan Guidelines (AQG); and
- Noise Abatement Guidelines Regional Official Plan Guidelines.

The ROP defers to the MECP guidelines and Provincial Policy Statement (2020) requirements for land use compatibility assessments of air quality and noise. The ROP calls for the preparation of certain guidelines or protocols to provide more detailed directions in the implementation of its policies. Section 143 of the ROP states it is the policy of Halton Region to:

*"143(2.1) Establish Air Quality Impact Assessment Guidelines to assist with the review of development applications to protect the health of Halton residents.* 

143(10) Develop, in consultation with the Local Municipalities, the Province, Federal government and the railway agencies, Land Use Compatibility Guidelines to minimize the adverse effects of noise, vibration, odour and air pollution from industrial, transportation and utility sources on sensitive land uses, including the application of separation distance between these non-compatible uses.

143(13) Adopt Regional guidelines concerning noise abatement measures on Regional roads and facilities, and encourage the Local Municipalities to adopt similar guidelines on Local Roads and facilities."



## 2.2.3 City of Burlington Official Plan (November 30, 2020)

The City of Burlington's Official Plan, as approved by Halton Region, November 30, 2020, provides a policy framework to implement Provincial policy and chart a course for development in the City, including the Area-Specific Plans.

Policies under Section 4.6.2 a) and b) the City of Burlington Official Plan are consistent with Section 143(12) of the Halton Region ROP. Under Section 4.6.3 c) of the City of Burlington Official Plan, proponents of a proposed development may be required to submit studies and undertake necessary actions to mitigate adverse effects to the satisfaction of the City of Burlington and Halton Region. Section 4.6.3 c) refers to Provincial guidelines and Regional Land Use Compatibility and Air Quality Guidelines while Section 4.6.3 d) refers to Regional Noise Abatement Guidelines for direction in land use planning decisions.

#### 2.2.4 City of Burlington Zoning By-law 2020

Zoning By-law 2020 establishes the current permitted uses within the three MTSAs.

Current zoning of the Burlington GO UGC/MTSA includes primarily General Employment lands north of the rail line, with some Mixed Use Corridor lands to the west and Residential lands to the east. South of the rail line is predominantly Mixed Use Corridor with smaller areas zoned as Commercial, Open Space and Residential.

The lands in the Aldershot GO MTSA are predominantly zoned as General Employment or Mixed Use Corridor, with some areas zoned as Commercial south of Plains Road West, and smaller areas zoned as Residential south of Masonry Court and Plains Road East.

The Appleby GO MTSA is primarily comprised of Employment (Business Corridor and General) lands north of the rail line, and Mixed Use Corridor lands south of the rail line. There are some lands designated as Open Space throughout the MTSA.

Dillon understands that a Zoning By-law amendment will be prepared following completion of the Area-Specific Plans and implementing Official Plan Amendments.



#### 2.2.5 Bill 23, More Homes Built Faster Act, 2022

On October 25, 2022, Ontario introduced a housing initiative under the More Homes Built Faster: Ontario's Housing Supply Action Plan: 2022-2023 to support the Province's commitment to build 1.5 million new homes over the next 10 years. Central to this is Bill 23, *More Homes Built Faster Act, 2022* (Bill 23) with a number of elements being passed by the Province of Ontario Legislature on November 28, 2022 and in effect.

Bill 23 changes existing statutes including:

- The Planning Act;
- The Ontario Heritage Act;
- The Development Charges Act;
- The Conservation Authorities Act; and
- The Ontario Land Tribunals Act.

The impact of Bill 23 on specific aspects of the municipal development approvals process remains unclear. However, with respect to the Planning Act, the changes through Bill 23 that removes land use planning responsibilities from certain upper-tier municipalities, including Halton Region, through the definition of "upper-tier municipality without planning responsibilities" will receive royal assent at a date to be determined by the Province. With regards to an upper-tier municipality's role in planning approvals, Bill 23 mandates that:

- Any portion of an upper-tier municipality's official plan which applies to a lower-tier municipality is deemed to constitute an official plan of the lower-tier municipality until the lower-tier municipality revokes it, amends it, or provides otherwise;
- Where applications for official plan amendments have been submitted to upper-tier municipalities without planning responsibilities, the relevant lower-tier municipality take over responsibility for the relevant, plan, process, or amendment application with some assistance from the upper-tier municipality;
- An upper-tier municipality's approval authority is removed for lower-tier official plans, and that approval authority is assigned to the Province;
- An upper-tier municipality's appeal rights and party status rights at hearings are removed; and
- An upper-tier municipality is only enabled to provide advice and assistance to lower-tier municipalities on planning matters, generally.



# 3.0 Summary of Relevant Land Use Policies, Regulations and Guidelines

The following documents were reviewed and summarized to guide the analysis of the Study Area:

- The Provincial Policy Statement (PPS) (2020);
- A Place to Grow: Growth Plan for the Greater Golden Horseshoe (2019);
- The City of Burlington Nuisance and Noise By-law 019-2003;
- The Ontario Environmental Protection Act (EPA);
- The MECP D-Series of Guidelines for land use compatibility between industrial and sensitive land uses;
- The MECP's local air quality regulation, Ontario Regulation 419/05 and the Environmental Activity and Sector Registry (EASR) regulation, Ontario Regulation 1/17;
- The MECP's Environmental Noise Guideline, Noise Pollution Control, NPC-300;
- The MECP's Impulsive Vibration in Residential Buildings guideline, NPC-207;
- The Guidelines for New Development in Proximity to Railway Operations, the Railway Association of Canada (RAC) and the Federation of Canadian Municipalities (FCM); and
- The Ministry of Transportation's Public Transportation and Highway Improvement Act.

## 3.1 Provincial Policy Statement (2020)

The latest update to the Provincial Policy Statement (PPS) was issued under Section 3 of the Planning Act and came into effect May 1, 2020. The PPS provides policy direction on matters of provincial interest related to land use planning and development. The update to the PPS supports the government's goals related to increasing housing, supporting jobs, and reducing red tape.

In April 2023, the Ministry of Municipal Affairs and Housing proposed a draft Provincial Policy Statement that takes policies from A Place to Grow: Growth Plan for the Greater Golden Horseshoe (2019) and the Provincial Policy Statement (2020) to support the achievement of housing objectives. The Land Use Compatibility Study was prepared prior to the consultation release of the draft 2023 PPS, and therefore considers the current PPS (2020).



#### The PPS (2020) states under Part V Section 1.2.6:

"1.2.6.1 Major facilities and sensitive land uses shall be planned and developed to avoid, or if avoidance is not possible, minimize and mitigate any potential adverse effects from odour, noise and other contaminants, minimize risk to public health and safety, and to ensure the long-term operational and economic viability of major facilities in accordance with provincial guidelines, standards and procedures.

1.2.6.2 Where avoidance is not possible in accordance with policy 1.2.6.1, planning authorities shall protect the long-term viability of existing or planned industrial, manufacturing or other uses that are vulnerable to encroachment by ensuring that the planning and development of proposed adjacent sensitive land uses are only permitted if the following are demonstrated in accordance with provincial guidelines, standards and procedures:

- a) there is an identified need for the proposed use
- *b)* alternative locations for the proposed use have been evaluated and there are no reasonable alternative locations
- c) adverse effects to the proposed sensitive land use are minimized and mitigated
- *d)* potential impacts to industrial, manufacturing or other uses are minimized and mitigated."

For the existing or planned lands for uses including manufacturing or industrial, the PPS provides direction to avoid conflicting development between more sensitive land uses, for example residential<sup>2</sup>. However, as noted in Section 1.2.6.2, where avoiding conflict between adjacent land uses is not possible, it is the planning authorities' responsibility to ensure that negative impacts are avoided, minimized, or mitigated. It is Dillon's understanding that in the context of the Burlington GO UGC/MTSA, Aldershot GO MTSA, and Appleby MTSA, avoidance by locating sensitive land uses outside of a facility's area of influence is not possible, given the planning focus for intensification in the MTSAs. In accordance with the PPS, negative impacts will be minimized or mitigated, which will include completion of comprehensive and/or site-specific technical assessments.

The Environmental Protection Act and subsequent regulations provide a framework to assess the encroachment of potentially incompatible land uses.

<sup>&</sup>lt;sup>2</sup> Ministry of Municipal Affairs and Housing (2020). *Provincial Policy Statement. Part V, Section 1.2.6 (Land Use Compatibility)*. Retrieved from: <u>https://files.ontario.ca/mmah-provincial-policy-statement-2020-accessible-final-en-2020-02-14.pdf</u>



Employment Areas are defined under the PPS as "those areas designated in an official plan for clusters of business and economic activities including, but not limited to, manufacturing, warehousing, offices, and associated retail and ancillary facilities."

The PPS states the following related to Employment Areas in Section 1.3.2:

"1.3.2.2 At the time of the official plan review or update, planning authorities should assess employment areas identified in local official plans to ensure that this designation is appropriate to the planned function of the employment area.

*Employment areas planned for industrial and manufacturing uses shall provide for separation or mitigation from sensitive land uses to maintain the long-term operational and economic viability of the planned uses and function of these areas.* 

"1.3.2.3 Within employment areas planned for industrial or manufacturing uses, planning authorities shall prohibit residential uses and prohibit or limit other sensitive land uses that are not ancillary to the primary employment uses in order to maintain land use compatibility.

*Employment areas planned for industrial or manufacturing uses should include an appropriate transition to adjacent non-employment areas."* 

Within the MTSAs, there are lands designated by the Halton Region Official Plan which are considered as employment areas with industrial, mixed business and service commercial uses. The planning and design of uses on these lands would need to integrate adequate separation or mitigation from sensitive land uses to maintain economic viability of the planned uses and function of the area.

## 3.2 A Place to Grow: Growth Plan for the Greater Golden Horseshoe (Office Consolidation 2020)

The Growth Plan provides guidance to municipalities within the Greater Golden Horseshoe on community design and development, including the development of infrastructure and the interface between various land uses.

Section 2.2.5, Employment, outlines policies related to the compatibility of employment uses with sensitive land uses, and states:



*"7. Municipalities will plan for all employment areas within settlement areas by:* 

- a. prohibiting residential uses and prohibiting or limiting other sensitive land uses that are not ancillary to the primary employment use
- b. prohibiting major retail uses or establishing a size or scale threshold for any major retail uses that are permitted and prohibiting any major retail uses that would exceed that threshold; and
- c. providing an appropriate interface between employment areas and adjacent non-employment areas to maintain land use compatibility.

8. The development of sensitive land uses, major retail uses or major office uses will, in accordance with provincial guidelines, avoid, or where avoidance is not possible, minimize and mitigate adverse impacts on industrial, manufacturing or other uses that are particularly vulnerable to encroachment."

It is Dillon's understanding that in the context of the Burlington GO UGC/MTSA, Aldershot GO MTSA, and Appleby MTSA, avoidance by locating sensitive land uses outside of a facility's area of influence is not possible, given the planning focus for intensification in the MTSAs as directed through provincial policy. In accordance with the Growth Plan, adverse impacts on industrial, manufacturing or other uses will be minimized or mitigated, which will include completion of comprehensive and/or site-specific technical assessments.

## Section 3.2.5, Infrastructure Corridors, Section 1 states:

"In planning for the development, optimization, or expansion of existing and planned corridors and supporting facilities, the Province, other public agencies and upper- and single-tier municipalities will:

- a encourage the co-location of linear infrastructure where appropriate
- e. for existing or planned corridors for transportation:
  - *i.* consider increased opportunities for moving people and goods by rail."

These policies underscore the importance of considering the land use compatibility of employment uses, while also highlighting the importance of rail corridors to transportation and development.



## 3.3 Environmental Protection Act

The Ontario Environmental Protection Act (EPA) provides a framework under which industrial compliance and land use compatibility are assessed. The EPA provides direction that:

- 1. Under Section 9 of the EPA, all regulated industrial and commercial facilities must apply for and obtain approval for any activities that may cause or results in contaminants to be discharged to the natural environment, as described in regulations 419/05 and 1/17; and
- 2. Under Section 14 of the EPA, a person shall not discharge a contaminant or cause or permit the discharge of a contaminant into the natural environment, if the discharge causes or may cause an adverse effect. Adverse effects are defined within the EPA as:

"one or more of,

- a. impairment of the quality of the natural environment for any use that can be made of it,
- b. injury or damage to property or to plant or animal life,
- c. harm or material discomfort to any person,
- d. an adverse effect on the health of any person,
- e. impairment of the safety of any person,
- f. rendering any property or plant or animal life unfit for human use,
- g. loss of enjoyment of normal use of property, and
- h. interference with the normal conduct of business;"

The EPA's definition of a contaminant includes but is not limited to: air contaminants, odours, noise, and vibration, and has been determined in past decisions to include light.

Obtaining approval for air and noise requires that a facility demonstrate, through a technical assessment, compliance with the applicable guidelines and regulations such as Ontario Regulation 419/05 and NPC-300.

The adverse effect clause in the EPA is applicable to, amongst other items, the assessment of nuisance complaints in a land use compatibility context. Nuisance impacts, such as dust and odour, may result in complaints which may be determined to fall under the adverse effects clause. When considering land use changes which may introduce new sensitive receptors in an area, it is important to consider a facility's current environmental approval as well as the potential for their operations to result in a nuisance impact.

## 3.4 Ontario Regulations 419/05 and 1/17 – Local Air Quality

The MECP's environmental permissions framework includes Environmental Compliance Approvals (ECA) (formerly Certificate of Approvals) issued under Section 9 of the EPA and following the requirements of Ontario Regulation 419/05 (O.Reg. 419/05), and Environmental Activity and Sector Registry (EASR) approvals issued under Section 9 of the EPA and following the requirements of Ontario Regulation 1/17 (O.Reg. 1/17). The applicability of the two instruments (ECA and EASR) is based on the facility's industrial operations. Both instruments are equivalent regulatory instruments; the EASR approach allows less-intensive industries to follow a streamlined review process.

Both approval mechanisms require the same supporting technical studies and reporting and for the purpose of this report will collectively be referred to as "Environmental Permissions". The Environmental Permissions process requires that industries assess their air quality (including dust, and odour), noise, and vibration emissions, and compare impacts to regulatory criteria.

The MECP requires any industry applying for Environmental Permissions to perform an assessment of air emissions as described in O.Reg. 419/05 and associated guidance documents. O.Reg. 419/05 outlines the requirements of the technical assessment and provides contaminant-specific air quality standards to be applied. All contaminants are required to be in compliance with these standards at all points off-site, while nuisance contaminants such as odours are regulated at sensitive receptors such as residences, schools, and places of worship. The implications of O.Reg. 419/05 from a land use compatibility perspective are:

- All industries, to operate in compliance with an approval, should meet the air quality standards for regulated contaminants at all points off-site which are allowed under current zoning, regardless of existing land use. Industries do not have to demonstrate compliance at elevated receptors where zoning does not allow for their construction. Note that these assessments would not consider ambient air quality (i.e., the ambient concentration of contaminants without the influence of the industry).
- Zoning changes to allow for elevated receptors in an area may impose new regulatory obligations for existing industries and can lead to compliance issues, as such locations would not have been assessed during the regulatory application process. Land use compatibility assessments should consider the potential impact on a facility's existing Environmental Permission, including requirements for or updates to Odour Screening Reports and Odour Control Reports and Best Management Practices Plans for odour or fugitive dust.
- Existing industries are not required to meet odour standards at lands which are not zoned for sensitive uses. Where zoning changes are proposed, a land use compatibility study (as described in the D-Series Guidelines section) should be performed to determine compatibility.



## 3.5 MECP D-Series Guidelines

The intent of the MECP's D-Series of Guidelines is to minimize or prevent, through the use of buffers and separation of uses, the encroachment of incompatible land uses. Guideline D-6 Compatibility between Industrial Facilities (Guideline D-6) delegates responsibility to the planning authorities and requires that they be followed where there is potentially encroachment of sensitive land uses to existing industrial lands and vice versa.

With respect to Guideline D-6, sensitive receptors include: residences, senior-citizen homes, schools, day care facilities, hospitals, and churches or similar institutional uses, as well as recreation areas deemed by the planning authority to be sensitive. Certain commercial and institutional uses may be deemed sensitive on a case-by-case basis and based on typical operating hours.

Guideline D-6 prescribes Recommended Minimum Separation Distances and Potential Influence Areas based on three industrial classifications (i.e., Class I, Class II, and Class III). The Potential Influence Area is the area within which adverse effects from an industry **may be experienced** at a sensitive receptor. It also represents the area between an industry and sensitive receptors within which technical studies should be performed to demonstrate the uses are compatible prior to approval. These studies may include air dispersion modelling and / or noise modelling to determine the actual influence area, which is defined by Guideline D-6 as the overall range within which an adverse effect **would be or is experienced**. Should the actual influence area intersect with the proposed use, further detailed assessment may be required to assess compatibility and determine mitigative solutions, as required.

The Recommended Minimum Separation Distance from an industry represents the area within which adverse effects to a sensitive land use are likely to occur. Developing a sensitive land use within an industry's Recommended Minimum Separation Distance requires detailed technical studies (e.g., air dispersion modelling) to demonstrate that the land uses are compatible. The Recommended Minimum Separation Distance was established based on MECP studies and historical complaint data.

The Guideline D-6 Industrial Categorization Criteria, Potential Influence Area, and Recommended Minimum Separation Distances are based on Industry Class and are discussed further in **Section 4.0**.

A draft version of the MECP's proposed update to the Land Use Compatibility Guideline was made available to the public on May 4, 2021. The MECP is not proceeding with the proposed Land Use Compatibility Guideline as a result of feedback received through the Environmental Registry. Therefore, the Land Use Compatibility Study has been completed based on the current D-Series of Guidelines.



## 3.6 The City of Burlington Nuisance and Noise By-law 019-2003

The by-law encompasses more than land use compatibility; including construction activities and home owner sources of noise. With respect to land use compatibility, the by-law typically follows MECP's NPC-300, with the exception of Common Amenity Space requirements.

## *3.7* **MECP NPC-300**

The 2013 Environmental Noise Guideline: Stationary and Transportation Sources (NPC-300 Guideline) is the primary guideline used in Ontario to assess and control noise emissions.

NPC-300 provides sound level limits for stationary sources, such as industries and commercial properties, affecting receptors in noise sensitive land uses. These limits apply to existing and planned stationary sources and are required to be met for the issuance of Environmental Permissions under Section 9 of the EPA. The noise limits specific to stationary sources are defined using area classifications (not to be confused with the D-6 industrial classifications), which are based on characteristics of the receptor's existing acoustic environment. NPC-300 area classifications are as follows:

- Class 1 An area with an acoustical environment typical of a major population centre, where background sound level is dominated by the activities of people, usually road traffic, often referred to as "urban hum";
- Class 2 An area with an acoustical environment that has qualities representative of a Class 1 area during daytime hours, and representative of a Class 3 area during evening and night-time hours;
- Class 3 A rural area with an acoustical environment that is dominated by natural sounds having little or no road traffic; and
- Class 4 An area or specific site that would otherwise be defined as Class 1 or Class 2 and which:
  - Is an area intended for development with new noise sensitive land use(s) that are not yet built; and
  - Is in proximity to existing, lawfully established stationary source(s); and has formal confirmation from the land use planning authority with the Class 4 area classification which is determined during the land use planning process.

NPC-300 also outlines how to assess stationary and transportation noise impacts on proposed noise sensitive developments. Part C of the guideline is intended to provide a common framework for land use planning authorities, developers, and consultants to address noise impacts on proposed noise sensitive land uses. The objectives of Part C of NPC-300 (which also adheres to the D-Series Guidelines) are to:

1. Create a suitable acoustical environment for the protection of users/occupants/residents of the proposed noise sensitive land uses;



- To protect the lawful operations of any stationary source(s) located close to a proposed noise sensitive land use (stationary sources need to be able to maintain compliance with the legal requirements of their MECP approval, when the development of new noise sensitive land uses are introduced in their proximity);
- 3. To protect existing and/or formally approved transportation corridors and transportation sources of noise when the development of new noise sensitive land uses are introduced in close proximity; and
- 4. To create compatible land uses and avoid potential adverse effects due to noise.

All industries, to operate in compliance with Environmental Permissions, should meet the NPC-300 noise guideline limits (with the exception of potential temporary exceedances through a Noise Abatement Action Plan) at all points of reception which are allowed under current zoning. Industries are not required to meet nuisance impact limits for noise, dust, and odour, at lands which are not zoned for sensitive uses.

Zoning changes to allow for sensitive land uses may impose new obligations for existing industries and can lead to compliance issues. As such, land use compatibility assessments should consider the potential impact on a facility's existing Environmental Permissions. Where zoning changes are proposed, a land use compatibility study (as described in the D-Series Guidelines section) should be performed to determine compatibility.

## *3.8* MECP NPC-207

The MECP publication NPC-207 is titled: Impulse Vibration in Residential Buildings (November, 1983) and it is intended to provide an assessment method for determining vibration levels inside occupied residential buildings that are caused by operation of stationary sources of vibration at industrial facilities (e.g., stamping presses, forging hammers). The publication also provides vibration limits for frequent and infrequent impulses of vibration. The vibration limits are expressed in terms of peak vibration velocity in mm/s and duration of impulses.

## 3.9 New Developments in Proximity to Railway Operations

These guidelines were prepared in May, 2013 through the collaboration of the Federation of Canadian Municipalities (FCM) and the Railway Association of Canada (RAC). These guidelines built off and replaced the FCM /RAC Proximity Guidelines and Best Practices Report, which were originally prepared and published in 2004 and reprinted in 2007. The intent of these guidelines is to provide guidance for municipalities and developers who seek to develop lands in proximity to railway operation (i.e., CN, CP, Metrolinx, industrial spur lines, etc.).

The guidelines contain recommended procedures for performing noise and vibration assessments. These procedures include details on data collection, calculations, criteria, and report contents for noise and vibration assessments for developments near railway activity.



# 3.10Ministry of Transportation: Public Transportation and HighwayImprovement Act

The Ministry of Transportation of Ontario (MTO) is a commenting agency for land use planning applications under the Planning Act, providing recommendations to the applicable planning authority. Under the authority of the Public Transportation and Highway Improvement Act, the MTO regulates the permit-controlled area for buildings, structures, roads, entrances and the placement of signs. MTO Permit Control Areas are illustrated in Section 1.1.3 of the MTO's Highway Corridor Management Manual (April 2022), which includes an 800 m Control Area for the use of any land that causes persons to congregate in large numbers (large traffic generators). As per the Highway Corridor Management Manual, an MTO Building and Land Use Permit is required for a construction project, commercial development, or residential development within the MTO's Permit Control Area.



# 4.0 Land Use Classification within the MTSA Study Areas

Dillon reviewed the MTSA Study Areas in order to classify the existing industrial lands, using the MECP's D-Series framework. The Background Reports were used as a basis when identifying and classifying industries. Classifications were confirmed and/or adjusted based on judgement of the assessment team, satellite imagery, review of existing MECP approvals documents, and through publicly available information. In accordance with the scope of work for the high-level review of land use compatibility, site visits to the MTSA Study Areas were not completed as part of this Land Use Compatibility Study.

Transportation sources which require consideration in compatibility studies were also identified; including:

- Canadian National (CN) "Oakville Subdivision" track (freight and passengers);
- GO Transit "Oakville Subdivision" track (freight and passengers, including VIA Rail trains);
- Highway 403;
- Queen Elizabeth Way (QEW); and
- Arterial roads including Plains Road, Waterdown Road, Fairview Street, Appleby Line, Guelph Line, Burloak Drive, and Brant Street.

## 4.1 MECP D-Series Industrial Classification and Compatibility

The Industrial Categorization Criteria presented in Appendix A of Guideline D-6 is provided in **Table 1**. Note that the examples provided in this table should not be considered a comprehensive list but are to be used to provide examples of each industrial category. Additionally, the examples listed in **Table 1** may not apply to all instances of a particular industry type; for example, some electronics manufacturing and repair facilities may meet the definition of a Class II or Class III facility.



Class	Outputs	Scale	Process	<b>Operations/Intensity</b>	Possible Examples
I	Noise: Sound not audible off property	No outside storage	Self-contained plant or building which	Daytime operations only	Electronics manufacturing and repair
	Dust and/or Odour: Infrequent and not intense	Small scale plant or scale is irrelevant in relation to	produces/stores a packaged product	Infrequent movement of products and/or heavy trucks	Furniture repair and refinishing
	Vibration: No	all other criteria for this Class	Low probability of fugitive emissions		Beverages bottling
	vibration on plant property				Auto parts supply
II	Noise: Sound occasionally audible off	Outside storage	Open process	Shift operations permitted	Magazine printing
	property	Medium level	of minor annoyance	Frequent movement of products and/or heavy	booths
	Dust and/or	of production	Low probability	trucks with the	Metal command
	and occasionally intense	anowed	of fugitive emissions	during daytime hours	Electrical production manufacturing
	Vibration: Possible ground borne vibration, but cannot be				Manufacturing of dairy products
	property				
111	Noise: sound frequently audible	Outside storage of raw and	Open process	Continuous movement of products and employees	Manufacturing of paint and varnish
	on property	finished	outputs of major	employees	Organic chemicals
	Dust and/or Odour: Persistent	products	annoyances	Daily shift operations	manufacturing
	and/or intense	Large production	High probability of fugitive	permitted	Solvent recovery plants
	Vibration: Ground- borne vibration can frequently be perceived off	levels	emissions		Metal manufacturing

## **Table 1: Industrial Categorization Criteria**

The classifications assigned in this study are presented for each MTSA, starting in **Section 4.2**. The classifications were based on judgement of the assessment team, in consideration of the Background Reports and a desktop review of aerial imagery and publicly available online information only (i.e., no site visit was completed). This approach is considered reasonable for the MTSA Study Area level of



analysis that was completed. A site visit and engagement with the relevant industrial and commercial land uses during the detailed technical study phase is highly recommended to confirm industrial classifications in the context of Guideline D6.

#### 4.1.1 Industrial Land Use Compatibility Distances

For the purpose of this study, industrial setbacks were assessed using the Potential Influence Area and Recommended Minimum Separation Distances described by Guideline D-6. The Potential Influence Area is defined as the distance between land uses where adverse effects may be experienced by a sensitive land use, due to fugitive emissions of the industrial land use. The Recommended Minimum Separation Distance is used to identify the area surrounding an industrial land use where incompatible developments should not occur. The Potential Influence Area and Recommended Minimum Separation Distances are provided in **Table 2**. The described distances vary for Class I, II, and III industries due to the frequency and magnitude of potential adverse effects.

Industrial Categorization	Potential Influence Area (m)	Recommended Minimum Separation Distance (m)	
Class I	70	20	
Class II	300	70	
Class III	1000	300	

#### **Table 2: Industrial Classification Study Distances**

In the assessment of distances between the MTSAs and surrounding industries, the distance was considered to be the shortest length measured between the industry boundary and MTSA boundary.

For the purposes of this study, the entire area inside each MTSA was considered as a sensitive land use, as a majority of the precincts defined in the RPPPs include residential land uses. It is understood that the Urban/General Employment precincts in the Burlington GO and Appleby GO MTSAs do not include residential land uses. The general application of sensitive land uses to the entire MTSA is considered reasonable for this MTSA Study Area level of analysis. Actual locations of sensitive land uses within the MTSA, and their proximity to existing industries, should be considered at the individual development analysis stage. If employment use land types are to include sensitive receptors - for example a daycare within the General Employment precinct - such uses would also need to be considered and assessed for compatibility.

**Table 2** above provides the Potential Influence Areas for each industrial categorization. Technical studies are required to establish the actual influence area which is defined by Guideline D-6 as the **overall range within which an adverse effect would be or is experienced**. Should the actual influence area intersect with the proposed sensitive land use, detailed technical studies are required to assess compatibility and potential mitigations options as required. These studies are described further in Section 7.0.



The Industrial Categorization Criteria presented in Appendix A of Guideline D-6 is intended to be a guide when determining the appropriate distances between industries and sensitive land uses. Where there is disagreement on the assignment of an industrial classification, an industry's Actual Influence Area should be determined to assess compatibility potential mitigations options as required. As per Guideline D-6, determination of the Actual Influence Area is based on specific substantiating information normally obtained through technical studies.

## 4.2 Burlington GO UGC/MTSA

**Figure A.2** in **Appendix A** shows the Class I, Class II, and Class III industries identified for the Burlington MTSA Study Area. **Table A.1** of **Appendix A** provides a list of Class I, Class II and Class III industries identified in **Figure A.2** and includes the following for each industry:

- A description of operations;
- The location relative to the MTSA;
- Whether the Potential Influence Area and/or Minimum Recommended Separation Distance intersects the MTSA; and
- Whether an Environmental Permissions has been identified.

**Figures A.3 and A.4** in **Appendix A** show the Potential Influence Area and Recommended Minimum Separation Distance of the classified industries, respectively. **Figures A.3 and A.4** show that that all of the Burlington GO MTSA is within the Potential Area of Influence and portions of the MTSA are in the Minimum Recommended Setback Distance of a number of industries.

The following summarizes the industrial lands uses (existing and permitted) within the Burlington GO MTSA Study Area:

- Following the classification system presented in Guideline D-6, the Burlington MTSA is within the Potential Influence Area of 4 Class I industries and 7 Class II industries; and
- Inclusive of the quantification above, the Burlington GO MTSA is within the Minimum Recommended Setback Distance of 4 Class I industries and 4 Class II industries.

No Class III industries were identified where their Potential Influence Area or Recommended Minimum Separation Distance intersects with the Burlington GO MTSA.

As the Potential Influence Area of an industry corresponds to the area in which an adverse effect may be experienced, the areas where industries' Potential Influence Areas intersect with the Burlington GO MTSA are recognized as being areas that would have potential compatibility issues for sensitive land uses.



The Recommended Minimum Separation Distance of an industry is the area where no incompatible development should occur. The areas where industries' Recommended Minimum Separation Distance intersects with the Burlington GO MTSA are considered as areas where there is high probability of compatibility issues for sensitive land uses.

## 4.3 Aldershot GO MTSA

**Figure B.2** in **Appendix B** shows the Class I, Class II, and Class III industries identified for the Aldershot MTSA GO Study Area. **Table B.1** of **Appendix B** provides a list of Class I, Class II and Class III industries identified in **Figure B.2** and includes the following for each industry:

- A description of operations;
- The location relative to the MTSA;
- Whether the Potential Influence Area and/or Minimum Recommended Separation Distance intersects the MTSA; and
- Whether an Environmental Permissions has been identified.

**Figures B.3 and B.4** in **Appendix B** show the Potential Influence Area and Recommended Minimum Separation Distance of the classified industries, respectively. **Figures B.3 and B.4** show that that all of the Aldershot GO MTSA is within the Potential Area of Influence and portions of the MTSA are in the Minimum Recommended Setback Distance of a number of industries.

The following summarizes the industrial land uses (existing and permitted) within the Aldershot GO MTSA Study Area:

- Following the classification system presented in Guideline D-6, the Aldershot GO MTSA is within the Potential Influence Area of 5 Class I industries, 3 Class II industries and 3 Class III industries; and
- Inclusive of the quantification above, the Aldershot MTSA is within the Minimum Recommended Setback Distance of 5 Class I industries, 3 Class II industries and 2 Class III industries.

As the Potential Influence Area of an industry corresponds to the area in which an adverse effect may be experienced, the areas where industries' Potential Influence Areas intersect with the Aldershot GO MTSA are recognized as being areas that would have potential compatibility issues for sensitive land uses.

The Recommended Minimum Separation Distance of an industry is the area where no incompatible development should occur. The areas where industries' Recommended Minimum Separation Distance intersects with the Aldershot GO MTSA are considered as areas where there is high probability of compatibility issues for sensitive land uses.



## 4.3.1 Description of Class III Industries in the Aldershot MTSA

A description of the industries assessed as Class III is included below. This is in consideration of the significant impact such industries can have from a land use compatibility perspective as well as the large portion of the Aldershot GO MTSA which is within the Potential Area of Influence of the Class III industries.

## 4.3.1.1 King Paving & Construction Ltd.

King Paving & Construction Ltd. operates a hot mix asphalt plant at 1077 Howard Road. Based on the facility's existing Amended ECA, site operations consist of:

- Aggregate and recycled asphalt pavement receiving, storage, processing and shipping;
- Asphalt cement receiving and storage;
- Aggregate drying; and
- Hot mix asphalt production, storage and shipping.

The facility's existing Amended ECA includes a requirement for a Best Management Practices Plan for the control of fugitive dust emissions. King Paving & Construction Ltd. has been considered a Class III industry based on its open process operations, the potential for persistent and/or intense dust, odour and noise emissions and vibration associated with regular operations, and continuous movement of products and employees. The facility is located within the Aldershot MTSA, in the Aldershot GO Central precinct, as per the RPPP (December 2021).

#### 4.3.1.2 CN Rail Aldershot Yard

CN operates a freight rail yard along the CN Oakville Subdivision rail line, in the southeast corner of Highway 403 and Waterdown Road. Typical operations of a freight rail yard can occur 24 hours a day and include the movement, loading, and shunting of railcars. The rail yard has been considered to be a Class III industry based on the continuous movement of products and employees as well as frequent outputs of major noise annoyances. Potential emissions from a freight rail yard may include continuous noise that is audible off property and ground-borne vibration. The rail yard is located adjacent to the Aldershot GO Central and Mid-Rise Residential precincts of the Aldershot GO MTSA, as per the RPPP (December 2021).

As per the *Guidelines for New Developments in Proximity to Railway Operations, 2013*, published by the Federation of Canadian Municipalities (FCM) and the Railway Association of Canada (RAC), all residential developments should have a standard recommended building setback of 300 m from freight rail yards. Where the recommended setbacks are not technically or practically feasible, a Development Viability Assessment should be undertaken by the proponent. The Development Viability Assessment is explained in Appendix A of the *Guidelines for New Developments in Proximity to Railway Operations*. Appendix C of the *Guidelines for New Developments in Proximity to Railway Operations* provides the



recommended procedures for the preparation of noise impacts studies for sensitive lands in proximity to rail yards.

Additionally, the ROP and the City of Burlington's Official Plan requires the following:

- A noise study, if the development is within 1000 m of a railway yard;
- A vibration study, if the development is within 75 m of a railway yard; and
- An air quality study, if the development contains sensitive land uses and is within 1,000 m of a railway yard.

#### 4.3.1.3 Meridian Brick Canada Ltd.

Meridian Brick Canada Ltd. operates a clay brick manufacturing facility at 1570 Yorkton Court. In 2002, an Air Certificate of Approval (No. 8-3729-98-996) was issued to Canada Brick Limited, which detailed a production output of 150,000,000 brick equivalent per year for the facility. This facility was considered as a Class III industry based on the large production levels and open process observed from aerial imagery and assumed continuous movement of products and employees. Potential emissions from the facility include dust and noise. The facility is located approximately 1,000 m from the Aldershot MTSA boundary (i.e., the MTSA lies just within the edge of the 1,000 m Potential Influence Area of this Class III facility).

## 4.4 Appleby GO MTSA

**Figure C.2** in **Appendix C** shows the Class I, Class II, and Class III industries identified for the Appleby MTSA Study Area. **Table C.3** of **Appendix C** provides a list of Class I, Class II and Class III industries identified in **Figure C.2** and includes the following for each industry:

- A description of operations;
- The location relative to the MTSA;
- Whether the Potential Influence Area and/or Minimum Recommended Separation Distance intersects the MTSA; and
- Whether an Environmental Permissions has been identified.

**Figures C.3 and C.4** in **Appendix C** show the Potential Influence Area and Recommended Minimum Separation Distance of the classified industries, respectively. **Figures C.3 and C.4** show that that portions of the Appleby MTSA are within the Potential Area of Influence and Minimum Recommended Setback Distance of a number of industries.



The following summarizes the industrial lands within the Appleby MTSA Study Area:

- Following the classification system presented in Guideline D-6, the Appleby MTSA is within the Potential Influence Area of 16 Class I industries, 13 Class II industries and 7 Class III industries; and
- Inclusive of the quantification above, the Appleby MTSA is within the Minimum Recommended Setback Distance of 15 Class I industries, 8 Class II industries and 6 Class III industries.

As the Potential Influence Area of an industry corresponds to the area in which an adverse effect may be experienced, the areas where industries' Potential Influence Areas intersect with the Appleby GO MTSA are recognized as being areas that would have potential compatibility issues for sensitive land uses.

The Recommended Minimum Separation Distance of an industry is the area where no incompatible development should occur. The areas where industries' Recommended Minimum Separation Distance intersects with the Appleby GO MTSA are considered as areas where there is high probability of compatibility issues for sensitive land uses.

### 4.4.1 Description of Class III Industries in the Appleby GO MTSA

A description of the industries assessed as Class III is included below. This is in consideration of the significant impact such industries can have from a land use compatibility perspective as well as the large portion of the Appleby GO MTSA which is within the Potential Area of Influence of the Class III industries.

#### 4.4.1.1 Fearman's Pork-Sofina Foods Inc.

Fearman's Pork-Sofina Foods Inc. operates as a meat processing facility located at 821 Appleby Line. In 2007, an Air Certificate of Approval (No. 4494-685MWW) was issued for to Maple Leaf Foods Inc. for the facility comprising of the following operations:

- Receiving and holding live animals;
- Processing (including slaughtering, eviscerating, deboning, chilling); and
- Shipping animal products.

Fearman's Pork-Sofina Foods Inc. was considered a Class III industry based on its large production levels, the potential for persistent and/or intense odour and noise emissions associated with regular operations and continuous movement of products and employees. The facility is located within the Appleby GO MTSA, in the Urban Employment precinct, as per the RPPP (December 2021).



### 4.4.1.2 Dominion Nickel Alloys Ltd.

Dominion Nickel Alloys Ltd. operates as a scrap metal recycling facility located at 834 Appleby Line. No Environmental Permissions have been identified for this facility. Based on a review of aerial imagery, the facility is assumed to receive, store and process large quantities of scrap metal. This facility was considered a Class III industry based on its open process operations, the outdoor storage of products, large production levels, and a high probability of fugitive emissions. Potential emissions from the facility include dust and noise resulting from the movement of products and employees. The facility is located within the Appleby GO MTSA, in the General Employment and Urban Employment precinct, as per the RPPP (December 2021).

### 4.4.1.3 Aim Recycling Burlington

Aim Recycling Burlington operates as a scrap metal recycling facility located at 4350 Harvester Road. No Environmental Permissions have been identified for this facility. Based on a review of aerial imagery and the facility's website, the facility's operations include receiving, storing and processing large quantities of scrap metal. This facility was considered a Class III industry based on its open process operations, the outdoor storage of products, large production levels, and a high probability of fugitive emissions. Potential emissions from the facility include dust and noise resulting from the movement of products and employees. The facility is located approximately 30 m from the Appleby GO MTSA boundary.

#### 4.4.1.4 Laurel Steel, a Division of Harris Steel ULC

Laurel Steel operates as a machining steel product manufacturing facility located at 5400 Harvester Road. Based on the facility's Amended ECA (No. 9602-A5WQQK), the facility has a production limit of up to 294,000 tonnes of steel bar and wire mesh products per year and the site operations consist of the following processes and support units:

- Coil blasting;
- Pickling;
- Mesh fabrication;
- Drawing machines;
- Teurema (cold rolling) line; and
- Galvanizing line.

Laurel Steel has been considered a Class III industry based on the outdoor storage of products and large production levels. Potential emissions from the facility include odour and noise from the regular operations. The facility is located approximately 30 m from the Appleby GO MTSA boundary.



I riple IVI Burlington
Triple M Burlington operates as a scrap metal recycling facility and end-of-life vehicle waste disposal site located at 961 Zelco Drive. The facility operates under an EASR for end-of-life vehicle waste disposal sites (No. R-007-37111981090). Based on a review of aerial imagery and the facility's website, the facility's operations include receiving, storing and processing large quantities of scrap metal and processing end-of-life vehicles. The facility has been considered a Class III industry based on the outdoor storage of products and large production levels. Potential emissions from the facility include noise and dust from regular operations. The facility is located approximately 100 m from the Appleby GO MTSA Boundary.
Associate Paving & Materials
Associate Paving & Materials operates as a hot mix asphalt plant located at 850 Syscon Court. Based on the facility's amended ECA (No. 8840-BCENZE), the site has a maximum production rate of 300 tonnes of hot mix asphalt per hour, 3,600 tonnes per day, and 300,000 tonnes per year. Operational equipment at the facility consists of:
<ul> <li>One dryer/mixer with a natural gas fired burden and particulate emissions controlled by one baghouse dust collector;</li> </ul>
Three liquid asphalt cement storage tanks;
Four hot mix asphalt storage silos; and
• One electric powered crusher to crush broken concrete and broken asphalt.
The ECA's Terms and Conditions require Associate Paving & Materials to restrict crushing operations to the daytime and evening hours as well as implementing noise control measures detailed in the facility's Acoustic Assessment Report. Additionally, the ECA includes a requirement for a Best Management Practices Plan for the Control of Fugitive Dust Emissions. The facility has been considered a Class III industry based on the outdoor storage of products, the potential for persistent and/or intense dust, odour and noise emissions associated with regular operations, and a high probability of fugitive emissions. The facility is located approximately 370 m from the Appleby GO MTSA boundary.
5200 Harvester Road (Vacant Property)
<ul> <li>A vacant property, located at 5200 Harvester Road, is currently zoned as General Employment (GE1) under the City of Burlington Zoning By-law 2020. Permitted uses under the GE1 zoning include, but are not limited to:</li> <li>Transportation equipment industries;</li> <li>Non-metallic mineral production industries;</li> <li>Food processing and manufacturing;</li> <li>Metal rolling, casting, and extruding;</li> </ul>
Petro chemical laboratories;



- Waste transfer station;
- Recycling facility; and
- Metal, wood, paper, plastic, machine, and chemical industries.

With respect to the Industrial Categorization Criteria in **Table 1**, it is expected that some of the permitted uses under the GE1 zoning have the potential to have:

- Sound frequently audible off property;
- Persistent and/or intense dust and/or odour emissions;
- Outside storage of raw and finished products;
- Large production levels;
- Open process;
- Frequent outputs of major annoyances
- High probability of fugitive emissions;
- Continuous movement of products and employees; and
- Daytime and night-time shift operations.

As per Guideline D-6, vacant lots should be assessed assuming the "worst-case" land use allowable under the existing zoning. Therefore, the vacant industrial lands at 5200 Harvester Road have been classified as a Class III industry.

## 4.5 Transportation Sources

#### 4.5.1 Railways

The Aldershot GO, Burlington GO and Appleby GO MTSAs are intersected by the CN and/or GO Transit Oakville Subdivision rail line. As per the *Guidelines for New Developments in Proximity to Railway Operations, 2013,* published by the Federation of Canadian Municipalities (FCM) and the Railway Association of Canada (RAC), rail traffic noise impacts should be assessed on all sensitive land uses that are within 300 m from a principle main line, 250 m from a secondary main line, 150 m from a principle branch line, 75 m from a secondary branch line, and 75 m from spur lines.

Part C of NPC-300 provides guidelines for rail traffic noise impact assessments as well as sound level criteria for noise sensitive spaces such as living/dining areas, sleeping quarters, and outdoor living areas.

In addition to rail traffic noise, an assessment of ground borne vibration is required if there is proximity to a rail line. It is recommended by *The Guidelines for New Development in Proximity to Railway Operations, 2013*, published by the Federation of Canadian Municipalities (FCM) and the Railway Association of Canada (RAC), that a vibration impact study be completed for all sensitive land uses that are within 75 m of a railway corridor or rail yard. The recommended procedures for the completion of a


vibration impact study is provided in Appendix C of the *Guidelines for New Development in Proximity to Railway Operations, 2013,* published by the FCM and RAC.

#### 4.5.2 Roadways

The Aldershot MTSA is located approximately 100 m south of Highway 403, while portions of the Burlington and Appleby MTSAs border Highway 403/QEW.

As per the ROP<sup>3</sup>, all three MTSAs include multi-purpose arterial roads (such as Plains Road and Fairview Street) and minor arterial roads (such as Appleby Line and Harvester Road).

Part C of NPC-300 provides guidelines for the assessment of road traffic noise however the completion of road traffic noise impact assessments is required at the discretion of the land use planning authority. Road traffic noise impacts are anticipated where sensitive land uses are proposed with proximity to highways, arterial roads, and collector roads. Road traffic noise sources that have the potential to impact sensitive land uses within the MTSAs may include but are not limited to the following:

- Highway 403;
- The QEW;
- Waterdown Road;
- Plains Road East;
- Brant Street;
- Harvester Road;
- Fairview Street; and
- Appleby Line.

As the roadway traffic patterns and building massing (acoustic screening) throughout the MTSA Study Areas may change over time, consultation with the City to determine which roadways are to be included in the transportation noise study should be completed at the time of assessment.

In contrast to air-borne noise, ground-borne vibration is not typically a concern from automobiles, buses, or trucks. Roadways throughout the MTSAs are not anticipated to generate ground-borne vibration levels that would be perceptible beyond the road boundary.

As per the ROP, an air quality study is required for development proposals within 30 m of a Major Arterial or Provincial Highway, or 150 m of a Provincial Freeway, as defined by the ROP. Highway 403 and the QEW are defined as a Provincial Freeway, as per the ROP<sup>2</sup>.

<sup>&</sup>lt;sup>3</sup> Halton Region Official Plan. (2022). *Map 3 – Functional Plan of Major Transportation Facilities*. Retrieved from: https://www.halton.ca/Repository/ROP-Office-Consolidation-Maps-All



# 5.0 Noise Background Report Applicable Findings

Pre-feasibility noise and vibration studies related to stationary and transportation for the defined Aldershot, Burlington and Appleby GO Mobility Hubs were completed in the Noise Background Report. The report was originally issued in June 2018 and an updated report, based on peer review comments, was issued in August 2021.

Noise receptor locations were selected based on the Preferred Land Use Concept developed for each hub during the Mobility Hubs Study, which indicate "low mid-scale intensity" and "mid high scale intensity" mixed use areas. Noise receptor locations were considered only at mixed-use areas identified in the Preferred Land Use Concept and lands designated for employment use were not assessed.

## 5.1 Stationary Noise

The Noise Background Report indicates that a detailed assessment of stationary noise sources was not completed. Instead, Guideline D-6 was applied to assess risk related to land use compatibility as the details regarding the source and/or receiving development are not known with enough specificity to complete a meaningful detailed noise impact study.

The findings of the stationary noise component of the Noise Background Report that are applicable to policy development for the ASPs are as follows:

- There are many different industrial facilities within and adjacent to the MTSAs, and individual assessments are required to accurately predict impacts on nearby sensitive land uses;
- Noise levels due to shunting operations at CN Rail's Aldershot Yard may require stationary noise mitigation such as a noise barrier at rail line right of way (ROW), upgraded building components and/or a minimum setback distance; and
- A Class 4 designation may be helpful for addressing stationary noise impacts from the industrial facilities.

The concept of applying a Class 4 designation, under MECP Publication NPC-300, is discussed further in **Section 6.0**.



#### 5.1.1 CN Rail Aldershot Yard

The Noise Background Report includes an assessment of noise impacts from shunting operations taking place at the CN Rail Aldershot Yard. In accordance with MECP Publication NPC-300, shunting operations are assessed in the report as a stationary noise source, as opposed to a transportation noise source. The predicted noise levels at selected receptors, due to shunting operations, are expected to exceed the applicable NPC-300 criteria limits during the daytime and nighttime. The report is based on the Preferred Concepts plan (2017), and the Aldershot MTSA boundary has since been updated as per the Recommended Preliminary Precinct Plan (December 2021). Based on the UTM coordinates provided in the report, the location of some of the assessed receptors is on or immediately adjacent to the CN rail line, which is unlikely to be the location of a residential building façade or outdoor amenity area (e.g., rooftop terrace). Furthermore, one of these receptors is no longer located within or on the updated MTSA boundary. An updated assessment of noise impacts based on reasonable potential sensitive receptor locations is required to determine the required setback distance from the rail yard and other appropriate mitigation strategies.

The Noise Background Report indicates that a minimum setback distance of 300 m for dwellings is required for railway yards, however a reference for this requirement is not provided. The Guidelines for New Developments in Proximity to Railway Operations, 2013, published by the Federation of Canadian Municipalities (FCM) and the Railway Association of Canada (RAC), provides a standard recommended building setback of 300 m for new residential development in proximity to a freight rail yard. Dillon has classified the rail yard as a Class III industry under Guideline D6 and the corresponding recommended minimum setback distance from a sensitive land use is 300 m. However, it should be noted that the FCM/RAC and Guideline D6 setback distances are a recommendation, only. Developments may be permitted within the recommended 300 m setback, provided that the appropriate studies are conducted and relevant air quality and noise guidelines are met. This includes a site-specific noise impact study, based on the location of a sensitive receptor (e.g., residential building facade, rooftop terrace) to determine the appropriate layout, design and required control measures. Note that the Noise Background Report suggests upgraded building components/glazing at building façade as a possible mitigation option to address noise impacts from shunting operations. However, upgraded glazing is not considered an allowable mitigation option under NPC-300 in a Class 1, 2 or 3 acoustic environment because the sound level limits for stationary source levels apply to the outdoor planes of windows and windows are assumed to be open. Allowable mitigation options to address noise impacts from shunting operations are provided in Section 8.0.



## 5.2 Transportation Noise and Vibration

The studies assessed rail noise and vibration impacts from the trains operated by GO Transit, CN and VIA along the Oakville Subdivision rail line. Road traffic noise from the following roadways was assessed:

- Burlington GO Hub: Fairview Street and Brant Street;
- Aldershot GO Hub: Highway 403, Plains Road and Waterdown Road; and
- Appleby GO Hub: Fairview Street and Appleby Line.

The results of the Background Noise Report that are applicable to policy development for the ASPs are as follows:

- New sensitive land uses with proximity to road and rail traffic may require transportation noise mitigation in the form of noise barriers or other shielding to protect outdoor living areas and upgraded building components to protect indoor living spaces;
- QEW transportation noise is not deemed a noise concern at Appleby and Burlington hubs as proposed adjacent land uses are designated for employment use in the Preferred Land Use Concept. Employment uses are not classified as a sensitive land use, as per NPC-300; and
- Sensitive land uses should be setback from active rail lines to reduce vibration levels and/or, where necessary, the implementation of building isolation is recommended.

The policy recommendations included in the Noise Background Report are applicable and are presented in **Section 7.0** below.

The transportation noise sources assessed in the Noise Background Report does not include all roadways identified in Section 4.5.2. It is Dillon's recommendation that any roadways including but not limited to highways, arterial roads, and collector roads are considered for potential road traffic noise impacts on proposed sensitive land uses of the MTSAs.

## 5.3 Air Quality Background Report Applicable Findings

The Air Quality Background Report was originally issued in June 2018 and an updated report, based on peer review comments, was issued in November 2021. The Air Quality Background Report applied the relevant land use compatibility guidelines to identify, and in some cases quantitatively assess, the potential for emissions from industrial uses and transportation sources on the sensitive land uses within the defined hub study areas. A summary of the applicable findings from the Air Quality Background Report are:

- Class I facilities are unlikely to result in significant land use compatibility issues with the exception of minor odour or dust nuisance effects;
- Class II and III land uses may result in incompatibilities with any future sensitive land uses;



- Odour is the most complex potential nuisance as it may be caused by stationary points; area sources; buildings, outdoor sources or fugitive sources;
- Odour mitigation measures that could be incorporated in into high-rise developments, as an outcome of required detailed assessments, include:
  - Commercial space to be used a buffer as a part of site design;
  - Air filtration for odour free indoor spaces; and
  - In highest impact locations, implement sealed units (no open balconies);
- Vehicular traffic related air emissions are significant and will likely impact the developments;
- Site-specific land use compatibility studies (air quality, noise, dust, odour) should be conducted for each proposed development;
- Developments may be subject to MTO approvals depending on if they lie within the MTO permit control area under the Public Transportation and Highway Improvement Act;
- Developments within close proximity to major highways should include:
  - Separation distances which set a minimum distance between high-traffic roadways and places where people live, work and play;
  - Strategic orientation of buildings, play areas and air intakes;
  - Maintain slightly positive air pressures in buildings;
  - Incorporate vegetative and physical barriers; and
  - Incorporate superior ventilation filtration and air conditioning systems into building designs.



## 6.0 MECP NPC-300 Class 4 Considerations

MECP Publication NPC-300 outlines applicable noise criteria for any proposed sensitive use developments associated with surrounding industrial and commercial stationary noise sources. The noise criteria are defined using area classifications (not to be confused with the Guideline D-6 industrial classifications), which are based on the receptor's existing acoustical environment. As outlined in NPC-300, different noise level limits apply to each area classification.

The current acoustic environment throughout the Burlington GO UGC/MSTA, Aldershot GO MTSA and Appleby GO MSTA is primarily dominated by the activities of people, including a mix of industrial and transportation sources of noise. Based on the nature of the area, the overall acoustic environment of each MTSA is consistent with a Class 1 designation. However, as the uses throughout the MTSAs are dynamic, the acoustic environment will be site specific and may transition over time. The classification of the acoustic environment should therefore be reviewed by an Acoustical Consultant, and the City, at the time of each noise impact assessment.

Where the noise impact from a stationary source exceeds the applicable NPC-300 sound level limits, mitigation is required to achieve compliance at the new sensitive land use. The preferred noise control option is the use of source-based noise control measures (such as silencers, barriers, low noise equipment replacement, etc.) implemented on the property of the stationary source(s). These are normally the most economical and practical noise control measures. New noise sensitive land uses will generally require agreements between the owner of the stationary source(s) and the development proponent. Without such an agreement, the following noise control measures are acceptable for implementation at the noise sensitive land use:

- 1. Outdoor noise control measures (such as barriers and/or berms);
- 2. Site configuration noise control measures (such as minimum setbacks, central courtyards and location of spaces that are not noise sensitive); and
- 3. Receptor based "on building" noise control measures, under the condition that the noise sensitive land use is classified as a Class 4 area.

As outlined in NPC-300, a Class 4 area can be applied to a proposed site under the following conditions:

- The site would otherwise be defined as a Class 1 or Class 2 area;
- The proposed site is an area intended for development with new noise sensitive land uses that are not yet built;
- The site is in proximity to existing, lawfully established stationary sources; and
- The site has formal confirmation from the land use planning authority (City of Burlington) with the Class 4 area designation.



Further requirements for a Class 4 designation are outlined in NPC-300.

The majority of parcels throughout each of the MTSAs are located within the Potential Influence Area and/or within Recommended Minimum Separation Distance of at least one industrial property. Accordingly, any parcel that is intended for the development of a new sensitive use may be appropriate for a Class 4 designation. It is recommended that should the City wish to pursue the use of a Class 4 designation, the City should formalize the procedures for assessing Class 4 applications, including the requirement for a detailed noise impact assessment in accordance with NPC-300. The City should also consider developing a set of guidelines that would be applicable City-wide and would be supported by best practices to guide the use and application of a Class 4 designation.

As per NPC-300, owners of the surrounding stationary noise source(s) should be provided with a copy of the approved studies and confirmation of the Class 4 designation from the City to allow for use of the appropriate classification and sound level limits in applications of MECP approvals.

It should be noted that some industrial properties may not have an existing completed noise study or provincial approval (EASR or ECA/CoA), due to lack of land use planning requirements at the time of permitting, no existing adjacent sensitive receptors, or exemptions from provincial approvals. Furthermore, the industry or industries may have little to no details regarding facility noise impacts, which may make the detailed noise impact assessments more challenging to complete. The detailed noise impact assessment, required by the proponent, should include input from the surrounding industries to ensure accurate information is used in the assessment.

## 6.1 CN Rail Aldershot Yard

The Noise Background Report, issued by Wood in August 2021, indicates that a Class 4 designation may aid in achieving compliance with respect to noise impacts at sensitive receptors from CN Rail's Aldershot Yard. The report indicates that the NPC-300 limits are exceeded by 4-24 dB in the daytime, and 7-29 dB in the nighttime. A Class 4 designation increases the applicable limits by 5-10 dB, as indicated in the Noise Background Report, and therefore cannot address the full potential range of exceedances at all of the locations assessed in the report by Wood. However, with a Class 4 designation (and only a Class 4 designation) proponents are allowed to include receptor based "on building" noise control measures in their design. As there are few practical source-based noise controls available to rail yard operations, these receptor based "on building" noise controls would likely be required for compatibility of any proposed developments in close proximity to and/or overlooking the railyard.

It is recommended that for any sensitive land uses proposed within 1000 m of the CN Rail Aldershot Yard, a detailed noise impact assessment is required to be completed prior to seeking a Class 4 area designation. The assessment should follow the recommended procedure in Appendix C of the *Guidelines for New Development in Proximity to Railway Operations, 2013*, published by the FCM and RAC. The results of the analysis should be compared to sound level criteria found in the *Guidelines for New Development in Proximity to Railway Operations, 2013* and NPC-300.

Class 4 designations are considered an appropriate instrument to contribute to compliance with noise limits for proposed sensitive land uses in proximity to the rail yard, and would likely need to be coupled with additional mitigation strategies such as those identified in Section 8.1. It is recommended that the City require that a peer review of the detailed noise impact assessment be completed by a qualified acoustic consultant to confirm that the application of mitigation strategies and qualification of a Class 4 designation are appropriate. See Section 7.1.6 for further guidance on peer reviews.

If a Class 4 designation is approved by the planning authority, registration on title of an appropriate warning clause to notify purchasers that the applicable Class 4 area sound level limits of the dwelling are protective of indoor areas and are based on the assumption of closed windows is recommended, as per MECP Publication NPC-300.



## **Discussion of Technical Study Requirements**

Where sensitive land uses are proposed within the Potential Influence Area or Minimum Recommended Setback Distance of an industrial use, technical studies are required to demonstrate that compatibility between the land uses can be achieved. These studies should be site-specific, meaning they should be based on a proposed development concept, with possible building massing location and height, to understand expected nuisance impacts and determine the appropriate layout, design and required control measures, if applicable. A general discussion of technical study components is provided below which are required to effectively assess land use compatibility. It is recommended that these components are considered by the City when forming a Terms of Reference, to assist developers and their consultants in scoping and preparing a study, in support of a planning application to the City. The requirements for Transportation Studies listed in Section 7.2 are also recommended to be considered when forming a Terms of Reference.

These technical studies are typically required to be submitted by the proponent, as part of the development application and planning approvals process, when site plan/design concepts are available. In addition to land use compatibility assessment at the development application stage, an option for the City to approach and understand the potential for land use compatibility issues earlier, at the Area-Specific Plan stage, is presented in **Section 9.0**.

## 7.1 Guideline D-6 Studies

Guideline D-6 specifically addresses the study requirements for noise, vibration, dust, and odour, however study requirements for regulated contaminants should also be considered when assessing land use compatibility.

#### 7.1.1 Applicability of Guideline D-6 Studies

For each MTSA, a summary of industries whose Potential Influence Area and/or Minimum Recommended Separation Distance intersects with the MTSA is provided in **Section 4.0**. Due to the proximity of these industrial lands to the MTSAs, if a land use change to sensitive use is proposed, some or all of the technical studies described below should be performed by the applicant, with consideration for the existing uses outlined in **Tables A.1, B.1, and C.1**. An updated review of existing industries surrounding a proposed development is required at the time of the development application, to confirm new, relocated, or missed industries.

With respect to Guideline D-6, sensitive receptors include: residences, senior-citizen homes, schools, day care facilities, hospitals, and churches or similar institutional uses, as well as recreation areas deemed by the planning authority to be sensitive. Certain commercial and institutional uses may be deemed sensitive on a case-by-case basis and based on typical operating hours.



#### 7.1.2 Who Can Complete a Study

A study is to be prepared on behalf of the proponent by consultants that are fully accredited, qualified and/or certified in the relevant matters being evaluated and recommended (for example air quality assessments should be performed by an engineer/practitioner fully accredited in such field, etc.).

#### 7.1.3 Study Methodologies

A qualified practitioner should perform Guideline D-6 studies using the following approach as appropriate:

- 1. The Potential Influence Area and Recommended Minimum Separation Distance for each industrial use in the area should be established.
- 2. For each industrial use where the Potential Influence Area intersects the proposed sensitive land use, an evaluation is performed to determine the Actual Influence Area (defined in Guideline D-6 as the overall range within which an adverse effect would be or is experienced). As per Guideline D-6, determination of the Actual Influence Area is based on specific substantiating information normally obtained through technical studies. While not specified in Guideline D-6, technical studies should be based on best practices and may include air dispersion modelling and/or noise propagation modelling. Should these studies determine that the actual influence area intersects the proposed land use, detailed technical studies should be performed.
- 3. For each industrial use where the Recommended Minimum Separation Distance or Potential Influence Area, or where known, the Actual Influence Area, intersects with the proposed land use, detailed technical studies for noise, vibration, dust, and odour are performed, as applicable, to identify compatibility issues. These studies include consideration of the industry's operations and emissions, background conditions (such as the existing acoustical environment or ambient air quality), local meteorology, the presence or absence of complaints related to that industry, and the nature of existing sensitive receptors in each MTSAs.
- 4. Where incompatible land uses are identified, compatibility may be improved through the use of approved mitigation measures, where additional technical studies (see below) may be required by the City as identified through ongoing consultation in the development application process. Approaches to mitigation are outlined in Section 8.0.
- 5. Conclusions, including a determination regarding the compatibility of the proposed land use with the existing and planned surrounding uses, should be provided.
- 6. If applicable, confirmation that the proposed development is not expected to impact any industry's ability to comply with applicable environmental permissions should be provided. Environmental permissions include, but are not limited to, Environmental Compliance Approvals (ECAs), registrations to the Environmental Activity and Sector Registration (EASR), Odour Screening Reports, Odour Control Reports, and Best Management Practices Plans for odour or fugitive dust. Zoning changes to allow for elevated receptors in an area may impose new regulatory obligations for existing industries as such locations would not have been assessed during the industry's regulatory application process. As per Guideline D-1-1 Land Use Compatibility: Procedure for Implementation,



the costs of studies and mitigation, where an existing land use is in compliance with government legislation, regulations, codes and standards, is normally the responsibility of the proponent of the new development.

#### 7.1.4 Detailed Technical Studies

Detailed technical studies of noise, vibration, dust, and odour impacts should be performed in accordance with the relevant Regulations and guidelines, as follows:

- Perform transportation noise studies for proposed sensitive land uses that are located in proximity to a roadway;
- Perform stationary noise and transportation noise studies in accordance with MECP's NPC-300;
- Perform industrial vibration studies in accordance with NPC-207; and
- Perform air quality studies in accordance with MECP publications Guideline A-10: Procedure for Preparing an Emission Summary and Dispersion Modelling (ESDM) Report, Guideline A-11: Atmospheric Dispersion Modelling Guideline for Ontario, and the MECP's Technical Bulletin on the Methodology for Modelling Assessments of Contaminants with 10-Minute Average Standards and Guidelines for Odour under O. Reg. 419/05.

#### 7.1.5 Additional Considerations

Additional considerations for the assessment of land use compatibility are as follows:

- A site visit to the study area and engagement with the relevant industrial and commercial land uses during the detailed technical study phase is considered best practice and is highly recommended. Description of the engagement completed with industry owners, including who was contacted, how they were contacted, and how the input was incorporated into the compatibility study, should be provided.
- Guideline D-6 stipulates that when performing technical studies, vacant lots should be assessed assuming the "worst-case" land use allowable under the existing zoning. The City should ensure that detailed technical studies supporting land use changes include consideration of vacant lands and allowable uses.
- Should a Class 4 designation be proposed as a mitigation option as part of a technical noise study (Noise Impact Study), formal approval of the Class 4 designation by the land use planning authority (i.e., the City) is required. A peer review of the technical noise study is highly recommended to confirm compliance with NPC-300 and to provide an opinion to the City on the appropriateness of the application of a Class 4 designation. Additional recommendations for peer reviews are provided in the following section.
- Guideline D-6 acknowledges that industrial uses may operate in compliance with an MECP approval while still being incompatible with nearby sensitive uses, due to the limitations of the supporting studies as well as the fact that MECP approvals are evaluated against an acceptable risk threshold which does not apply to an individual's perception of a nuisance. As an example, the MECP regulates odours based on an allowable frequency of exceedance of relevant criteria. Industries are allowed to



exceed odour thresholds at a 0.5% frequency (i.e., 44 hours per year), meaning that a facility may be operating in compliance with the applicable regulations and odours may be perceptible off-site.

#### 7.1.6 Peer Reviews of Studies

It is highly recommended that the City, at their discretion, engage a qualified independent party to peer review a Guideline D-6 study and associated technical studies, as part of the development planning approval process. The objective of the peer review is to confirm the appropriate application of relevant Acts, Regulations, policies, and guidelines, and that a land use compatibility assessment follows industry best practice. Typically, peer reviews are coordinated by the planning authority, at the expense of the applicant. The requirement for a peer review, to be completed at the expense of the applicant, could be specified in a Terms of Reference.

## 7.2 Transportation Studies

In addition to the Guideline D-6 technical studies, transportation noise, vibration and air quality impacts should also be assessed for compatibility.

Transportation Noise Assessments in support of any proposed sensitive use shall adhere to NPC-300 and the Halton Region Noise Abatement Guidelines. NPC-300 outlines noise level criteria for sensitive land uses, which assist in determining requirements for façade construction, ventilation requirements, warning clauses, and potential noise barriers for the proposed development.

As there are no MECP guidelines with respect to railway vibration, Transportation Vibration Assessments in support of any proposed sensitive use shall adhere to the *Guidelines for New Development in Proximity to Railway Operations, 2013* (FCM/RAC).

Air quality impacts from significant transportation sources (road and rail) should be quantified by a qualified professional in accordance with relevant guidance, such as the MTO's *Environmental Guide for Assessing and Mitigating the Air Quality Impacts and Greenhouse Gas Emissions of Provincial Transportation Projects*.

All studies may be subject to independent peer review as described in **Section 7.1.6**, at the discretion of the City.



## **8.0** Approaches to Mitigation

Mitigation of potential compatibility issues is highly dependent on the type of nuisance and site-specific factors including source configuration and location of the receptor. While determination of mitigation measures is site-specific and typically addressed at the development application stage, a policy approach which considers the broader site context and promotes consistency and continuity across developed sites is recommended, particularly in instances where pathway mitigation measures are involved (see below). Dillon also recommends that the City require formal commitments from proponents with respect to mitigation implementation prior to the approval of an application. Mitigation can generally be described as at-source, pathway mitigation, or at-receptor, as described below:

**At-source mitigation** reduces the emissions of nuisance contaminants from the existing use. This could include but is not limited to upgrading air emission control equipment, installing silencers on noise sources, replacement of equipment, paving parking lots, or changing facility operations. At-source mitigation is typically the most effective approach for all contaminant types (i.e. odour, dust, noise, vibration), and requires cooperation between the developer and industrial uses. In the case where sensitive uses are proposed and there are existing industrial uses, mitigation is typically paid for by the developer of the sensitive uses.

**Pathway mitigation** involves introducing a barrier between the source of emissions and the sensitive receptor. Barriers can be highly effective in mitigating noise emissions when they are placed close to the source, block line-of-sight, and are appropriately designed. Vegetated barriers (i.e. trees) can reduce the impacts of some air emissions (i.e., dust and particulate based contaminants), and can be effective near roadways or railway corridors. Depending on the context, there may be opportunities for the City to encourage a consistent approach to pathway mitigation across multiple sites (where redevelopment is occurring across a broader area – in these instances, it may be desirable to have, for example, similar types of noise walls and/or landscaping).

**At-receptor mitigation** includes a number of design approaches to reduce the impacts at the sensitive use. Upgraded windows, upgraded facades, mandatory air conditioning, foundation isolation, and upgraded HVAC filtration can all reduce impacts at the development. Additionally, good site plan design can play a significant role in reducing impacts and limiting mitigation requirements. For example, using commercial buildings to screen sensitive uses is often an effective noise control measure. Based on the requirements of transportation noise assessments outlined in NPC-300, compatibility issues between transportation sources and developments are typically easier to mitigate at-receptor through building design.



The use of at-receptor mitigation for stationary noise impacts is limited in allowable use. As per NPC-300, it may only be applied to proposed developments that are located within a Class 4 area, and the allowable mitigation options are limited in scope (e.g., site plan design or enclosed buffer balconies).

## 8.1 CN Rail Aldershot Yard Noise Mitigation

As per MECP Publication NPC-300, shunting operations are assessed as a stationary noise source, as opposed to a transportation noise source. Allowable mitigation options to address noise impacts from shunting operations may include:

- Receptor based outdoor noise control measures, for example, ground or berm mounted acoustic barriers;
- Receptor based "on building" noise control measures, such as enclosed noise buffers, under the condition that the noise sensitive land use is classified as Class 4 area (refer to **Section 6.0**); and
- Receptor based site configuration noise control measures, such as the orientation of buildings and outdoor living areas with respect to noise sources and spatial separation.

Although not able to be used in place of a physical noise control measure to identify an excess over the applicable sound level limits, a warning clause may be used for stationary sources, in agreements that are registered on title to the lands, to warn of potential annoyance due to the rail yard. As per the FCM's and RAC's *Guidelines for New Developments in Proximity to Railway Operations, 2013,* planning authorities are encouraged to promote the use of rail operations warning clauses, in consultation with the appropriate railway, to notify those who may acquire an interest in a subject property that complaints should not be directed to the railways.



## 9.0 **Conclusions and Recommendations**

This report demonstrates that all three MTSAs are in sufficient proximity to a number of existing industrial uses such that detailed technical studies are required to demonstrate compatibility and appropriate mitigation strategies. Typically, technical assessment of land use compatibility occurs during the development approvals process, when site design information (e.g., building massing, building location, outdoor amenity area locations) is available. However, in some cases, the development application stage may be too far along to be a key decision point for incompatibility, and this may be duplicative or ineffective in addressing compatibility. Furthermore, since the ASP process is undertaking a comprehensive review of land uses in each of the MTSAs, the ASP process is an ideal time to address the potential for issues in a proactive manner.

## 9.1 Burlington GO UGC/MTSA & Aldershot GO MTSA Recommendations

Class I and II industries have been identified in the Burlington GO UGC/MTSA and Class I, II, and III industries have been identified in the Aldershot GO MTSA. For both of these MSTAs, sensitive land uses designated in the Recommended Preliminary Precinct Plans fall within the Potential Area of Influence and/or Minimum Recommended Setback Distance of these industries. As part of the approvals process for any future development containing sensitive uses, detailed land use compatibility studies shall be required for each new development within the Burlington GO UGC/MTSA and Aldershot GO MTSA. It is recommended that the Area-Specific Plans include a policy stating that for any proposed development containing sensitive uses, a land use compatibility assessment shall be prepared in accordance with a Terms of Reference approved by the City, that considers applicable MECP guidelines and best practices, and demonstrates that the applicable land use compatibility requirements of the PPS (2020)<sup>4</sup> are met. This recommendation refers to the policies of the current PPS (2020) as opposed to the draft PPS (2023) which is not in force and effect at this time. The study components outlined in Section 7.0 of this report may be considered by the City when forming a Terms of Reference for land use compatibility assessments.

When considering long-term planning in the Aldershot GO MTSA, it is assumed that some industries are expected to transition out of the MTSA over time given their employment conversion status or plans for relocation. **Figure B.5** in **Appendix B** illustrates the Class III industries remaining to be designated as Employment in the Aldershot GO MTSA. The need to protect the operational and economic viability of industries expected to transition out of the MTSA still exists in the interim. When assessing land use compatibility between sensitive land uses and such industries, consideration should be given to both the full range of permitted uses as well as any known future operating plans of nearby industries. Engagement between the land owners/their retained consultants and industries is critical to understand

<sup>&</sup>lt;sup>4</sup> Ministry of Municipal Affairs and Housing (2020). *Provincial Policy Statement*. Retrieved from: https://files.ontario.ca/mmah-provincial-policystatement-2020-accessible-final-en-2020-02-14.pdf



the industry's future operating plans (e.g., facility closure within one year) and determine a worst-case operating scenario to be included in the technical assessment(s). Mitigation measures to achieve compatibility should be discussed with the land owners, industry, and the City, to arrive at a feasible solution that considers the industry's future operating plans.

## 9.2 Appleby GO MTSA Recommendations

The ASP will continue to permit the Employment designation of lands north of the CN and GO Transit rail line intersecting the Appleby Go MTSA, while land use conversions, including conversions mixed-use (including residential), are planned for the MTSA lands south of the rail line. There is a need to protect the operational and economic viability of the non-converted employment lands, as per the PPS. **Figure C.3** demonstrates that all of the MTSA lands south of the rail line are within the existing industries' combined Potential Influence Areas and **Figure C.4** demonstrates that portions of these MTSA lands are within the combined Recommended Minimum Setback Distances. **Figure C.5** in **Appendix C** illustrates the Class III industries remaining to be designated as Employment.

The quantity and type of industrial uses within and adjacent to Appleby GO MTSA, combined with the expected long-term employment function of the area, suggests that more detailed technical information is required to adequately plan for long-term land use in the Appleby GO MTSA.

There are two options recommended for the consideration of land use compatibility in the Appleby GO MTSA:

- **Option 1:** Completion of a comprehensive land use compatibility study for the Appleby GO MTSA at the Area-Specific Plan level, including assessments of air quality (odour, dust, and air contaminants), noise and vibration impacts from existing and permitted industrial lands on proposed sensitive land uses (e.g., residential or prestige office developments); or
- **Option 2:** Inclusion of an Area-Specific Plan policy to require that land use compatibility is addressed at the development application stage through a site-specific land use compatibility study, in accordance with a Terms of Reference developed by the City, and applicable MECP guidelines and PPS (2020) policies.

Both options are considered valid to address land use compatibility in the Appleby GO MTSA at the ASP level. Each option has its advantages and disadvantages which are described below, to assist the City in making a choice as to how to proceed.



#### 9.2.1 Option 1: Comprehensive Land Use Study

The City has the option to consider land use compatibility at the ASP stage through a comprehensive study.

In this option, Dillon recommends that, where applicable, industries identified as Class I under Guideline D-6 are addressed qualitatively, while Class II and Class III industries are assessed quantitatively. In general, the comprehensive study should meet the technical study requirements outlined in Section 7.0 of this report. It is recommended that one comprehensive study (final deliverable) be completed, and encompasses all known, proposed sensitive land uses in proximity to the relevant Appleby MTSA industries.

To provide a useful and effective land use compatibility assessment of existing industries and proposed sensitive land uses at the ASP level, air and noise emissions data (e.g., air dispersion and noise propagation model inputs) from existing industries is required. It is Dillon's understanding that based on the City's previous engagement with select industries, this information can be made available. From the development land owners, conceptual development plans with approximate building massing locations and heights will be needed to understand the characteristics of a development that would be compatible with existing industries.

In accordance with Guideline D-6, the comprehensive land use compatibility study should include assessment of vacant lands assuming the "worst-case" land use allowable under the existing zoning. Land owners of vacant industrial lands would be responsible for providing the potential operations/source and emission types to be assessed. The degree of incompatibility between the permitted industrial uses and sensitive land uses may change once the actual industrial land use is known.

Within land use compatibility assessments, there can be limited exchange of information and often a non-collaborative relationship between land owners/their retained consultants and industries. Refusal to participate in information exchange results in modelling assumptions and reduced accuracy of modelling results. Facilitation of engagement by the City and cooperation between all stakeholders is required between to avoid this. The comprehensive land use study is expected to break down traditional barriers between the stakeholders and provide an opportunity to generate solutions collaboratively.

For any proposed development included in the comprehensive study, it is recommended that an update to the technical assessment is required at the development application stage. Should Option 1 be selected, it is recommended that the Area-Specific Plan includes a policy to address this requirement. The updated technical assessments should be prepared in accordance with a Terms of Reference approved by the City and should be based on any changes to site-specific design components assumed in the comprehensive study (e.g., building massing location, building height).

Dillon proposes two options for the City's role in addressing land use compatibility at the ASP level, through a comprehensive study:

- Role 1: City acts as lead for technical analysis; or
- Role 2: City acts as lead for convening stakeholders.

#### 9.2.1.1 Role 1: City as Lead for Technical Analysis

As the Lead for technical analysis, the City's role is to lead the comprehensive study, and coordinate with land owners and industries to obtain pertinent information required for the technical assessments. The City would retain a qualified consultant to complete the technical assessments of impacts at proposed sensitive land uses, including air quality dispersion modelling, noise propagation modelling, and vibration assessment.

#### Role 1 Advantages:

- The City will have a higher level of control on the timing of the study's progress and deliverable(s); and,
- The City will have a higher level of control on the quality of the study.

#### **Role 1 Disadvantages:**

- Time and cost to the City to retain a qualified consultant and coordinate land owners and industries; and,
- Perceived transfer of risk (see note below).

Note that quality control and ownership of the technical work delivered by the consultant would rest with the City (which could be considered both an advantage and disadvantage).

#### 9.2.1.2 Role 2: City Lead for Convening Stakeholders

For Role 2, the detailed technical assessments are the responsibility of the development land owners. As the Convenor of stakeholders, the City's role includes the following:

- Facilitate communication and data sharing between stakeholders (i.e., the development land owners and industries);
- Communicate needs for the MTSA, which would be a single comprehensive study with inputs from all relevant industries and applicable land owners;
- Provide minimum requirements (e.g., Terms of Reference) for the technical studies; and
- Review the technical assessments to ensure they align with the minimum requirements, including a peer review of the assessments to be completed by a qualified consultant.



#### **Role 2 Advantages:**

- Less time, effort and cost are anticipated to be required on the City's behalf, compared to Role 1, to facilitate communication and provided guidance to stakeholders, since stakeholders are leading the study; and,
- Dillon understands there would be no change in the City's liability between Role 2 and the typical process of reviewing land use compatibility studies submitted by the land owner at the development application stage.

#### Role 2 Disadvantages:

- The City will have less control of timing of the study's progress and deliverable(s), compared to Role 1; and,
- The City will have less control of quality of the study, compared to Role 1.

In both role options, the outcome of the comprehensive study should be used to identify specific mitigation requirements (at-source and/or receptor-based) to promote compatibility. This would allow for appropriate densification in the Appleby GO MTSA, with respect to land use compatibility, and improvement of nuisance impacts for those currently living in the area. In most cases, compatibility can be achieved through a combination of detailed technical studies, proper site plan design, mitigation measures, and cooperation between existing landowners and developers. Approaches to mitigation are provided in **Section 8.0**.

#### 9.2.1.3 Summary of Option 1

Land use compatibility for the Appleby GO MTSA may be considered at the ASP stage through a comprehensive study. An interest in participation and engagement would be required from developers and industry owners involved in a comprehensive study, in order to arrive at the most effective study outcome.

Two options have been presented for the City's role in a comprehensive study:

- Role 1: City acts as lead for technical analysis; or
- Role 2: City acts as lead for convening stakeholders.

While Role 1 is expected to offer a higher level of control on the timing of the study, quality control and ownership of the technical work delivered by consultants would rest with the City. Under Role 2, less time, effort and cost are anticipated to be required on the City's behalf.

For any proposed development included in the comprehensive study, it is recommended that an update to the technical assessment is required at the development application stage. In the event there is a lack of study information available at the time the comprehensive study is completed, study efforts may be duplicated for the comprehensive study stage and development application stage.



## 9.2.2 Option 2: ASP Policy Approach to Address Land Use Compatibility at the Development Application Stage

Option 2 presents an Area-Specific Plan policy approach to ensure land use compatibility is addressed at the development application stage. Policy framework at the ASP level will help to protect the operational and economic viability of the non-converted employment lands in the Appleby GO MTSA, and establish a long-term vision for the converted lands in the MTSA. The ASP policy would require land use compatibility assessments, related to air quality, noise, and vibration impacts, for all development applications proposing sensitive land uses within MTSA lands south of the CN and GO Transit rail line. In this option, the ASP will only permit the existing land uses as currently designated in the City of Burlington's Official Plan (2020), unless it can be demonstrated that land use compatibility can be achieved by meeting the requirements of the PPS and in accordance with the applicable Provincial guidelines (i.e., Guideline D-6) and best practices. It is recommended that the policy framework requires that the technical studies are prepared in accordance with a terms of reference developed by the City. Recommended components of a Terms of Reference have been provided in Section 7.0.

### 9.2.3 Planning Tools for Appleby GO MTSA Option 1 and Option 2

As per discussions with the City, Dillon understands that to allow for the completion of a comprehensive land use compatibility study at the ASP stage (Option 1), an interim control bylaw or holding provisions are available planning tools. These tools may also be applicable to the ASP policy approach (Option 2).

### 9.2.3.1 Interim Control By-law

An interim control bylaw (ICBL) would put a temporary "freeze" on the development in the Appleby GO MTSA while the City completes the comprehensive land use compatibility study, under Option 1, or requires complex coordination between development applications, under Option 2. The use of an interim-control by-law under Option 2 is less appropriate, as land use compatibility is being assessed at the development application stage on a site by site basis, however, there may be circumstances where the City consider the use of this tool. For example, should multiple, complex development applications be proposed in a focused area at similar times, coordination amongst the development proponents and surrounding industries may warrant an ICBL.

The advantages to the ICBL is that the City is not required to re-designate land uses until the level of mitigation effort and compatibility or incompatibility between industries and sensitive land uses is fully understood. A disadvantage of the ICBL tool is the time expiration of the ICBL (a period of one year, with maximum extension of a second year), as one year may not provide enough time to allow for the comprehensive land use compatibility study process. Another disadvantage of the ICBL tool is the political risk with respect to stakeholders. The ICBL suspends land owners' development rights as well as existing industries' expansion plans for at least one year and a maximum of two years. Furthermore, an

ICBL can sometimes be viewed as a blunt instrument which frustrates investors, developer, industry, etc. (e.g., there are limited appeal rights for private land owners when the City passes an ICBL)<sup>5</sup>.

#### 9.2.3.2 Holding Provisions

When a holding provision is added to a zone under the City's zoning by-law, the land uses permitted by the given zone are delayed until certain conditions have been met, such as the completion of a land use compatibility study (Option 1) or coordination between multiple, complex development applications in a focused area (potential scenario under Option 2). The advantage to this instrument is that it puts the onus on the land owner to demonstrate compatibility at a site-specific level and determine appropriate mitigation strategies. Under this instrument, the City would provide the minimum requirements (e.g., Terms of Reference) for the technical assessments to be completed. The main disadvantage to this approach is that holding provisions are usually tied to site-specific studies and it would be difficult to add a holding zone to each property within the MTSA and tie the provision to the completion of a comprehensive land use compatibility study. A further disadvantage is that industries operating under MECP environmental (air and noise) approvals would be required to comply with the applicable standards at any lands zoned with a sensitive land use designation (e.g., residential), including those with a holding provision. These new sensitive receptors might receive worst case impacts compared to the existing receptors, and industries may not be able to maintain compliance with MECP requirements. Pre-designating lands for sensitive uses without a thorough understanding of the compatibility implications is a risky strategy for long range planning.

#### 9.2.4 Recommended Option for the Consideration of Land Use Compatibility in the Appleby GO MTSA

Two options have been presented for the consideration of land use compatibility in the Appleby GO MTSA:

- Option 1: Completion of a comprehensive land use compatibility study at the Area-Specific Plan; or,
- **Option 2:** Inclusion of an Area-Specific Plan policy to require that land use compatibility is addressed at the development application stage through a site-specific land use compatibility study.

For both options, the objective is to understand the potential for compatibility issues and to identify specific mitigation requirements (at-source and/or receptor-based) to promote compatibility. If completed under ideal conditions, the comprehensive study would help to inform the appropriate land use characteristics of the Appleby GO MTSA at the ASP stage (prior to the development application stage). However, unless the City receives a strong expression of interest from proponents of developments and surrounding industry owners to participate in such a study, it is expected that major components of the study would be pushed to the development application stage due to a lack of

<sup>&</sup>lt;sup>5</sup> Private landowners may not appeal a municipality's decision to implement an ICBL, however, the Minister may appeal the decision within 60 days. Should a municipality need to extend an ICBL beyond the permitted one-year time frame to a second year, to complete the ICBL study, the Planning Act allows private land owners to appeal the extension decision to the OLT.



information available. Given the potential for duplication of efforts at the comprehensive study stage and development application stage, barring strong support from industry and landowners for Option 1, Option 2 is recommended to address land use compatibility in the Appleby GO MTSA.

# **Appendix A**

Burlington GO UGC/MTSA Figures and Industry Summary









**BURLINGTON GO UGC/MTSA** CITY OF BURLINGTON MTSAs LAND USE COMPATIBILITY STUDY

#### **BURLINGTON GO UGC/MTSA STUDY AREA** FIGURE A. I



- MTSA Boundary as per December 2021 Preliminary Preferred Precinct Plan
- Study Area (I km)
- Railway
- Expressway / Highway / Freeway
- Ramp
- Arterial Road
- Collector Road
- Local Road
- Watercourse
- Waterbody
- Municipal Boundary

0 125 250 500 m

SCALE 1:25,000

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MAP DRAWING INFORMATION: DATA PROVIDED BY MNRF, CITY OF BURLINGTON

MAP CREATED BY: LK / DR MAP CHECKED BY: CH MAP PROJECTION: NAD 1983 CSRS UTM Zone 17N

FILE LOCATION: K:\2021\212562 - Burlington MTSA\Product\Client\LUC\A1\_b\_StudyArea.mxd



PROJECT: 212562 STATUS: DRAFT DATE: 2023-04-12







**BURLINGTON GO UGC/MTSA** CITY OF BURLINGTON MTSAs LAND USE COMPATIBILITY STUDY

**BURLINGTON GO UGC/MTSA** INDUSTRIAL CLASSIFICATIONS FIGURE A.2

	MTSA Boundary as per December 202 Preliminary Preferred Precinct Plan
77	Study Area (1 km)
	Railway
	Expressway / Highway / Freeway
	Ramp
	Arterial Road
	Collector Road
	Local Road
	Watercourse
	Waterbody
	Parcel Fabric
6	Maximum Height (Storeys) *
Indus	trial Classification

Class	I

Class 2

0	125	250	500 m	SCALE 1:15,000	s
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#### Table A.1 - Summary of Industries Identified within the Burlington GO UGC/MTSA Study Area

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FacilityName	Address	Description of Operations	Guideline D- 6 Classification	D-6 Classification Justification <sup>[1]</sup>	Potential Nuisance Emissions <sup>[2]</sup>	Location as per Sept 2021 Preliminary Preferred Precinct Plan	MTSA is located within PIA and/or MRSD? <sup>[3]</sup>	Environmental Permissions Identified <sup>[4]</sup> (ECA, CoA, EASR)	Industry ID
Caril Auto Darda	1400 Crobania Lana	Auto Danto Chara - David Course Danah	Class	No outside storage     Small scale plant     Low probability of fugitive emissions	Odour	Land Made		2361-5PFQ9L (CoA issued	B. 01
Sinit Auto Body	1400 Granam's Lane	Auto Body Shop - Paint Spray Boom	Class I	No outside storage     Small scale plant     Low probability of fugitive	Noise	Legiod Node	PIA and MRSD	2003)	B_01
Hi Tech Collision	1392 Graham's Lane	Auto Body Shop	Class I	<ul> <li>emissions</li> <li>Daytime operations only</li> </ul>	Odour Noise	Legion Node	PIA and MRSD	NA	B_02
				<ul> <li>No outside storage</li> <li>Low probability of fugitive</li> </ul>					
Lennat Pontiac Buick Cadillac Limited	2207 Fairview Street	Auto Body Shap	Class I	emissions •Davtime operations only	Odour Noise	Drury Node	PIA and MRSD	NA	B 03
Coggar i Grida Dalok Oddina Carinted			OIGUS I	No outside storage     Small scale plant	10000		T Prana Milloo		5_00
				Low probability of fugitive				5400 D	
Leggat Collision Centre	629 Brant Street	Auto Body Shop - Paint Spray Booth	Class I	<ul> <li>Daytime operations only</li> </ul>	Odour Noise	Outside of MTSA (approx 20m from MTSA boundary)	PIA and MRSD	EASR Registration Number R- 001-9606301705	B_04
				<ul> <li>No outside storage</li> <li>Self contained plant</li> </ul>					
Detour Coffee Inc.	2234 Harold Road	Coffee Roaster	Class I	<ul> <li>Low probability of fugitive emissions</li> </ul>	Odour	Outside of MTSA (approx 315m from MTSA boundary)	No	1648-A8WKAD	B_05
				No outside storage     Small scale plant					
				<ul> <li>Low probability of fugitive ominipions</li> </ul>	Odour				
Aro Motors Collision Ltd.	2397 Fairview Street	Auto Body Shop - Paint Spray Booth	Class I	Daytime operations only	Noise	Outside of MTSA (approx 370m from MTSA boundary)	No	8434-72SNZ2	B_06
				Self contained plant	Dust				
Rice Tool & Manufacturing Inc.	2247 Harold Road	Manufacturer of Manually Machined Components	Class I	<ul> <li>Low probability of fugitive emissions</li> </ul>	Odour Noise	Outside of MTSA (approx 430m from MTSA boundary)	No	2002-4RXM52	B_07
CSN CARS West	1167 Pettit Road	Auto Body Shop - Paint Spray Booth	Class I	No outside storage     Self contained plant	Odour	Outside of MTSA (approx 500m from MTSA boundary)	No	2001 to Randy Pickard	B 08
00101101101	THO T CHATTONG		010001	No outside storage     Small ages alegat	10000	Bable of Miler (upplex boom non miler boomdary)	110	incorporated operating as only	0_00
				<ul> <li>Low probability of fugitive</li> </ul>					
Mountain Collision Service Inc.	2481 Industrial Street	Auto Body Shop - Paint Spray Booth	Class I	<ul> <li>Daytime operations only</li> </ul>	Odour Noise	Outside of MTSA (approx 850m from MTSA boundary)	No	1484-4U5QDC	B_09
				<ul> <li>Small scale plant</li> <li>Low probability of fugitive</li> </ul>					
Burlington Krown Line-X (1263337 Ontario Inc.)	2499 Industrial Street	Rust Control Centre	Class I	emissions •Davtime operations only	Odour	Outside of MTSA (approx 950m from MTSA boundary)	No	1127-7P4PKM	B 10
				Class II based on permitted uses under GE2 zoning permitted uses (City of Burlington Zoning Bylaw 2020). GE2 uses are consistent with Class I examples shown in Table 1. Permitted uses have potential to allow for: -Outside storage Medium production levels -Daily shift operations -Periodic outputs of minor annoyance	Dust				
Vacant	2078 Queensway Drive	Unknown/Vacant	Class II (potentially)	<ul> <li>Low probability of fugitive emissions</li> </ul>	Odour Noise	Burlington GO Central	PIA and MRSD	NA	B_11(V)
				<ul> <li>Outside storage permitted</li> <li>Medium level of production</li> </ul>					1
				allowed •Low probability of fugitive	Dust Odour				
Bull Moose Tube Ltd.	2170 Queensway Drive	Mechanical Steel Tubing Manufacturing Facility	Class II	emissions	Noise	Queensway Main Street	PIA and MRSD	6419-AXBH6F	B_12
				Medium level of production					
Solenis Canada ULC (formerly Ashland Canada				•Frequent movement of	Odour				
Corp.)	942 Brant St	Manutacturer of Specialty Chemicals (e.g., detoamers, emulsions)	Class II	Outside storage permitted	Noise	Outside of MISA (adjacent MISA boundary)	PIA and MRSD	3448-8PJRH9	B_13
NALCO Canada LILC	1055 Trumon Street	Manufacturer of Chemicals for Water and Process Treatment	Class II	Periodic outputs of minor     approvance	Odour	Linhan Employment	PIA and MRSD	1357-95YO4B	B 14
				<ul> <li>Medium level of production</li> </ul>	1				
				<ul> <li>Low probability of fugitive</li> </ul>					
				<ul> <li>Frequent movement of</li> </ul>	Odour				
Sun Chemical Limited	1274 Plains Road East	Manutacturer of Printing Ink and Pigment	Class II	Outside storage permitted	Noise	Outside of MISA (approx 200m from MISA boundary)	PIA	0564-4R5SFL	B_15
				Medium level of production allowed     Low probability of fugitive emissions     Frequent movement of	Dust Odour			0251-63KL4F (CoA issued in 2004 to A. H. Tallman Bronze	5.40
Traintian rechnologies inc.	2220 industrial Street	www.www.uniter.ori.steermaking and ironmaking rechnologies	CidSS II	Medium level of production allowed     Low probability of fugitive emissions	Dust	Puisine or wit SA (approx 200m from MI SA boundary)		Company, Limited)	D_10
	L		L	<ul> <li>Frequent movement of</li> </ul>	Odour	L	L		L

 Hood Packaging Corporation
 2380 McDovel Road
 Menufacturer of Flaxable Packaging and Bags
 Class II
 \*request movement of Moder
 Outside of MTSA (approx 240m from MTSA boundary)
 PIA
 1451-5C4RY5

 Note:
 Value
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Dall			<u> </u>

**BURLINGTON GO UGC/MTSA** CITY OF BURLINGTON MTSAs LAND USE COMPATIBILITY STUDY

## **BURLINGTON GO UGC/MTSA POTENTIAL INFLUENCE AREA**

FIGURE A.3
MTSA Boundary as per December 2021 Preliminary Preferred Precinct Plan
Railway
Expressway / Highway / Freeway
Ramp
Arterial Road
Collector Road
Local Road
Watercourse
Waterbody
Parcel Fabric
Industrial Classification
Class I
Class 2
Potential Influence Area (PIA) Coverage
Area of PIA Overlap

0	125	250	500 m	SCALE 1:15,000	° Č
MAP DAT/	DRAWIN	g informa Ed by mnrf	TION: CITY OF BURLING	GTON	
MAP MAP MAP	CREATED	D BY: LK /DR D BY: CH			
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FILE MTS	LOCATIC	0N: K:\2021\2 \Client\LUC\4	212562 - Burlington A3_b_PotentialInflue	enceArea.mxd	
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Dall			<b>1</b>

**BURLINGTON GO UGC/MTSA** CITY OF BURLINGTON MTSAs LAND USE COMPATIBILITY STUDY

**BURLINGTON GO UGC/MTSA MINIMUM RECOMMENDED SEPARATION DISTANCE** FIGURE A.4

	MTSA Boundary as per December 2021 Preliminary Preferred Precinct Plan
77	Study Area (1 km)
	Railway
	Expressway / Highway / Freeway
	Ramp
	Arterial Road
	Collector Road
	Local Road
	Watercourse
	Waterbody

Parcel Fabric

#### Industrial Classification

Class I	
---------	--



Recommended Minimum Separation Distance (RMSD) Coverage



Area of RMSD Overlap

0	125	250	500 m	SCALE 1:15,000	
MAP DATA	DRAWIN A PROVID	g informa <sup>-</sup> Ed by mnrf,	TION: CITY OF BURLING	TON	
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FILE MTS	LOCATIC A\Product	0N: K:\2021\2 \Client\LUC\4	12562 - Burlington \4_b_Recommended	MinSeparationDistance.	mxd
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	CONSU	ILTING		DATE: 2023-04-13	

# **Appendix B**

Aldershot GO MTSA Figures and Industry Summary



The Corporation of the City of Burlington Major Transit Station Areas Land Use Compatibility Study May 2023 – 21-2562



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ALDERSHOT GO MTSA CITY OF BURLINGTON MTSAs LAND USE COMPATIBILITY STUDY

#### ALDERSHOT GO MTSA STUDY AREA FIGURE B.I

 MTSA Boundary as per December 2021
 Preliminary Preferred Precinct Plan

- Study Area (1 km)
- Railway
- Expressway / Highway / Freeway
- Ramp
- Arterial Road
- Collector Road
- Local Road
- Watercourse
- Waterbody
- Municipal Boundary

0 125 250 500 m

SCALE 1:25,000



MAP DRAWING INFORMATION: DATA PROVIDED BY MNRF, CITY OF BURLINGTON

MAP CREATED BY: LK / DR MAP CHECKED BY: CH MAP PROJECTION: NAD 1983 CSRS UTM Zone 17N

FILE LOCATION: K:\2021\212562 - Burlington MTSA\Product\Client\LUC\B1\_al\_StudyArea.mxd



PROJECT: 212562 STATUS: DRAFT DATE: 2023-04-13



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**ALDERSHOT GO MTSA** CITY OF BURLINGTON MTSAs LAND USE COMPATIBILITY STUDY

## ALDERSHOT GO MTSA INDUSTRIAL CLASSIFICATIONS

FIGURE B.2

- MTSA Boundary as per December 2021 Preliminary Preferred Precinct Plan
- Study Area (1 km)
- Railway \_\_\_\_
- Expressway / Highway / Freeway
- Ramp
- Arterial Road
- Collector Road
- Local Road
- Watercourse
- Waterbody
- Parcel Fabric
- 6 Maximum Height (Storeys) \*

#### Industrial Classification

- Class I Class 2
- Class 3

0	125	250	500 m SCALE 1:12,500	" o
MAP DAT/	DRAWING I	INFORMATION BY MNRF, CIT	N: Y OF BURLINGTON	
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Table B.1 - Summary	y of Industries Identified within the Aldershot GO MTSA Study	Area
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			Guideline D.6	D-6 Classification	Potential	Location as per Sept	MTSA is located within	Environmental	Industr
Facility Name	Address	Description of Operations	Classification	Justification <sup>(1)</sup>	Nuisance	2021 Preliminary	PIA and/or MRSD? <sup>[3]</sup>	Permissions Identified [4]	ID
			olassification	Sustinuction	Emissions <sup>(2)</sup>	Preferred Precinct Plan	r in rands of thirds.	(ECA, CoA, EASR)	10
				•No outside storage					
				<ul> <li>Self contained plant</li> </ul>					
				<ul> <li>Low probability of fugitive emissions</li> </ul>					
				<ul> <li>Infrequent movement of</li> </ul>					
Cotones 6 Incesion Ltd	1000 Casha Baulayard	Divited Driveting Drivet Drivers	Class I	products and/or heavy	Odour	Casha Cammana	DIA and MDCD	20000 7070141	41 04
Calegory 5 imaging Ltd.	1062 COOKE BOUIEvalu	Digital Printing, Print Dryers	Class I	•No outside storage	NUISE	COOKE COMMONS	FIA and MRSD	3006-7P7RVU	AL_UI
				<ul> <li>Self contained plant</li> </ul>					
Gentherm (formerly Etratech Inc.)	1047 Cooke Boulevard	Electronics manufacturer	Class I	<ul> <li>Low probability of fugitive emissions</li> </ul>	Noise	Cooke Commons	PIA and MRSD	0441-A4RS6Q (issued to Etratech Inc.)	AL 02
				<ul> <li>Small scale plant</li> </ul>					
				<ul> <li>Infrequent movement of products and/or beauty</li> </ul>	Dust				
A Cosmos Concrete & Paving Ltd	1160 Waterdown Rd	Storage Yard	Class I	trucks	Noise	Aldershot GO Central	PIA and MRSD	NA	AL_03
				<ul> <li>No outside storage</li> <li>Solf contained plant</li> </ul>					
				<ul> <li>Low probability of fugitive</li> </ul>					
ppolito Fruit & Produce/Mission Produce	1060 Howard Rd	Greens Processing, Warehouse and Packing Operations	Class I	emissions	Noise	Mid-Rise Residential	PIA and MRSD	NA	AL_04
ppolito Fruit & Produce/Agro Wholesale Produce Ltd.	1032 Howard Rd	Icing Operations, Warehouse and Packing Operations	Class I	<ul> <li>Self contained plant</li> </ul>	Noise	Mid-Rise Residential	PIA and MRSD	NA	AL_05
				<ul> <li>No outside storage</li> </ul>					
				<ul> <li>Self contained plant</li> <li>I ow probability of fugitive</li> </ul>		Outside of MISA (approx 300m from MTSA			
lppolito Fruit & Produce	201 North Service Rd	Greens Processing, Warehouse and Packing Operations	Class I	emissions	Noise	boundary)	No	NA	AL_06
				No outside storage					
				<ul> <li>Self contained plant</li> </ul>	Dust	Outside of MTSA (approx			1
	445.5.110.1			<ul> <li>Low probability of fugitive</li> </ul>	Odour	700m from MTSA			
Povey Custom Woodwoorking	419 Enheld Rd	Cabinetry Manufacturer	Class I	No outside storage	Noise	boundary)	No	NA	AL_07
				<ul> <li>Small scale plant</li> </ul>	1				1
				<ul> <li>Self contained plant</li> <li>I ow probability of fugitive</li> </ul>	Dust	Outside of MTSA (approx 740m from MTSA		7091-6E5RLI7 (CoA issued	
Busche Granite (1582974 Ontario Ltd.)	425 Enfield Rd	Granite Works	Class I	emissions	Noise	boundary)	No	2005)	AL_08
				<ul> <li>Outside storage permitted</li> </ul>	1				
				<ul> <li>Low probability of fugitive emissions</li> </ul>					
				•Frequent movement of					
				products and/or heavy					
				of movements during					
				daytime hours	Dust				
Bulkwood Products Inc.	1140 Waterdown Road	Wood Chipping for Mulch Production	Class I	-	Noise	Aldershot GO Central	PIA and MRSD	4307-8XUJ9Q	AL_09
				<ul> <li>Open process</li> <li>Outside storage permitted</li> </ul>					
				Medium level of production	ı				
				ellowed					
				products and/or heavy					
				trucks with the majority of					
				hours	9				
				Assumptions:					
				<ul> <li>No on-site crushing operations</li> </ul>					
				<ul> <li>Facility operating in</li> </ul>					
				accordance with					
St. Mary's Cement Inc. (Canada) operating as CBM Ready				(e.g., BMPP for Fugitive	Dust				
Mix	1035 Howard Road	Ready Mix Cement Plant	Class II	Dust Control)	Noise	Emery Commons	PIA and MRSD	9841-BNUR2A	AL_10
				Potential Class II based on permitted uses under CE2	1				1
	1		1	zoning (City of Burlington	1				1
				Zoning Bylaw 2020). GE2	1				1
				uses are consistent with Class II examples shown in					1
	1		1	Table 1. Permitted uses	1				1
				have potential to allow for:					
			1	Medium production levels	1				1
				Daily shift operations	1				1
	1		1	annoyance	Dust				1
	1020, 1021 Emery		Class II	<ul> <li>Low probability of fugitive</li> </ul>	Odour			L	
vacant	Avenue	Unknown/Vacant	(potentially)	emissions	NOISE	Emery Commons	MA and MRSD	NA	AL_11(V)
				<ul> <li>Open process</li> </ul>	1				1
				Potential for persistent     and/or integral dust	1				1
				and noise emissions and	1				1
	1		1	vibration associated with	1				1
	1		1	<ul> <li>High probability of funitive</li> </ul>	Dust				1
		Hot Mix Asphalt Plant	1	emissions	Odour				1
King Raving & Construction Ltd	1077 Howard Road	Aggregate and Recycled Asphalt Pavement Processing	Close II	<ul> <li>Continuous movement of products and employment</li> </ul>	Noise Vehration	Aldershat GO Control	PIA and MPSD	2000 RYNTEG	AL 12
ning navilig & Construction LIC.	1077 HUWAID KOBD	r idi k	UIBS II	<ul> <li>Continuous movement of</li> </ul>	vioranon	Audershot GO Central	r in allu MitoD	2000-DAN100	AL_12
			1	products and employees	1				1
CN Rail Aldershot Yard	Hwy 403/Waterdown Rd	Shunting Operations	Class II	<ul> <li>requent outputs of major annovances</li> </ul>	Noise	Aldershot GO Centrel	PIA and MRSD	NA	AL 13
and the state of t	in, for tradition in the		5.300 E	•Open process					
1				<ul> <li>High probability of fugitive emissions</li> </ul>	1	Outside of MTSA (approx			1
				<ul> <li>Continuous movement of</li> </ul>	Dust	1000m from MTSA		8-3729-98-996 (CoA issued in	1
Meridian Brick Canada I td	1570 Vorkton Court	Quarry/Brick Manufacturing	Close III	products and employees	Noise	boundary)	PIA	2002 to Canada Brick Limited)	ΔI 14

 Meridian Brick Canada Ltd.
 Class III
 Continuous movement of Dust.
 Dust.
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 Total movement of Dust.
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**ALDERSHOT GO MTSA** CITY OF BURLINGTON MTSAs LAND USE COMPATIBILITY STUDY

## ALDERSHOT GO MTSA POTENTIAL **INFLUENCE AREA**

FIGURE B.3

- MTSA Boundary as per December 2021 Preliminary Preferred Precinct Plan
- Study Area (1 km)
- Railway \_
- Expressway / Highway / Freeway
- Ramp
- Arterial Road
- Collector Road
- Local Road
- Watercourse
- Waterbody
- Parcel Fabric

### Industrial Classification

- Class I
- Class 2
- Class 3
- Potential Influence Area (PIA) Coverage
- Area of PIA Overlap

0	125	250	500 m SCALE 1:12,500	"D"
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**ALDERSHOT GO MTSA** CITY OF BURLINGTON MTSAs LAND USE COMPATIBILITY STUDY

#### ALDERSHOT GO MTSA MINIMUM **RECOMMENDED SEPARATION DISTANCE** FIGURE B.4

MTSA Boundary as per December 2021
Preliminary Preferred Precinct Plan

- Study Area (I km)
- Railway \_
- Expressway / Highway / Freeway
- Ramp
- Arterial Road
- Collector Road
- Local Road
- Watercourse
- Waterbody
- Parcel Fabric

### Industrial Classification

- Class I
- Class 2
- Class 3
- Recommended Minimum Separation Distance (RMSD) Coverage



Area of RMSD Overlap

0	125	250	500 m SCALE 1:12,500	s L
MAP I DATA	DRAWING I	INFORMATION BY MNRF, CITY	I: Y OF BURLINGTON	
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**ALDERSHOT GO MTSA CITY OF BURLINGTON MTSAs** LAND USE COMPATIBILITY STUDY

#### ALDERSHOT GO MTSA NON-CONVERTED (EMPLOYMENT) CLASS III INDUSTRIES FIGURE B.5

- MTSA Boundary as per December 2021 Preliminary Preferred Precinct Plan Study Area (1 km)
- Railway \_\_\_\_
- Expressway / Highway / Freeway
- Ramp
- Arterial Road
- Collector Road
- Local Road
- Watercourse
- Waterbody
- Parcel Fabric
- 6 Maximum Height (Storeys) \*
- Non-Converted Class III Industry
- Recommended Minimum Separation Distance (RMSD) Coverage
- Area of RMSD Overlap



# Appendix C

Appleby GO MTSA Figures and Industry Summary



The Corporation of the City of Burlington Major Transit Station Areas Land Use Compatibility Study May 2023 – 21-2562


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APPLEBY GO MTSA STUDY AREA FIGURE C.I

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MTSA Boundary as per December 2021 Preliminary Preferred Precinct Plan Study Area (1 km)

- Railway
- Expressway / Highway / Freeway
- Ramp
- Arterial Road
- Collector Road
- Local Road
- Watercourse
- Waterbody
- Municipal Boundary

0 125 250 500 m

SCALE 1:25,000



MAP DRAWING INFORMATION: DATA PROVIDED BY MNRF, CITY OF BURLINGTON

MAP CREATED BY: LK / DR MAP CHECKED BY: CH MAP PROJECTION: NAD 1983 CSRS UTM Zone 17N

FILE LOCATION: K:\2021\212562 - Burlington MTSA\Product\Client\LUC\C1\_ap\_StudyArea.mxd



PROJECT: 212562 STATUS: DRAFT DATE: 2023-04-13







**APPLEBY GO MTSA INDUSTRIAL** CLASSIFICATIONS FIGURE C.2

	MTSA Boundary as per December 2021 Preliminary Preferred Precinct Plan Study Area (1 km)
·	Railway
	Expressway / Highway / Freeway
	Ramp
	Arterial Road
	Collector Road
	Local Road
	Watercourse
	Waterbody
	Parcel Fabric
6	Maximum Height (Storeys) *
Indus	strial Classification
	Class I
	Class 2
	Class 3
	<sup>h</sup>
0 I	25 250 500 m SCALE 1:15,000

MAP DRAWING INFORMATION: DATA PROVIDED BY MNRF, CITY OF BURLINGTON

MAP CREATED BY: LK / DR MAP CHECKED BY: CH MAP PROJECTION: NAD 1983 UTM Zone 17N

FILE LOCATION: K:\2021\212562 - Burlington MTSA\Product\Client\LUC\C2\_ap\_IndustrialClassifications.mxd



PROJECT: 212562 STATUS: DRAFT DATE: 2023-04-13

#### Table C.1 - Summary of Industries Identified within the Appleby GO MTSA Study Area

Facility Name	Address	Description of Operations	Guideline D-6 Classification	D-6 Classification Justification <sup>[1]</sup>	Potential Nuisance Emissions <sup>[2]</sup>	Location as per Sept 2021 Preliminary Preferred Precinct Plan	MTSA is located within PIA and/or MRSD? <sup>[3]</sup>	Environmental Permissions Identified <sup>[4]</sup> (ECA, CoA, EASR)	Industry ID
				•No outside storage •Small scale plant •Low probability of fugitive emissions					122.41
Corporate Autoworks	5195 harvester Koao	Autoritative Regai Shop		No outside storage     Self contained plant     Low probability of fugitive emissions     Infrequent movement of	NDISE	General Employment	PA and MKSD	104	APP_01
Artcraft Label Inc.	5205 Harvester Road	Print Shop	Class I	products and/or heavy trucks	Odour	General Employment	PIA and MRSD	2652-72RPUW	APP_02
Fluid Power House	920 Century Drive	Industrial Equipment Supplier	Class I	<ul> <li>Self contained plant</li> <li>Low probability of fugitive emissions</li> </ul>	Noise	General Employment	PIA and MRSD	NA	APP_03
				•Small scale plant	Durt.			1075 0AL ICO (Instant In 2010 to Cost Dura	
Interprovincial Corrosion Control	930 Sheldon Court	Manufacturer of Corrosion Control/Cathodic Protection Materials	Class I	<ul> <li>Self contained plant</li> <li>Low probability of fugitive emission</li> </ul>	Noise	General Employment	PIA and MRSD	4075-8ALJG8 (issued in 2013 to Cant Rust Company Limited)	APP_04
				Small scale plant     No outside storage					
Sylvite Transportation Group	5300 Harvester Road	Agricultural	Class I	Self contained plant     Low probability of fugitive emissions	Noise	General Employment	PIA and MRSD	NA	APP_05
				Small scale plant     No outside storage					
PCI Pharma Services Canada Inc.	977 Century Drive	Pharmaceutical Company - Laboratory	Class I	Self contained plant     Low probability of fugitive emissions	Odour	Urban Employment	PIA and MRSD	7028-6DUR9N (CoA issued in 2006 to Patheon Inc.)	APP_06
ControlChem Canada Ltd.	4460 Harvester Road	Water Treatment Provider	Class I	•Small scale plant •Self contained plant •Low probability of fugitive emissions	Odour Noise	General Employment	PIA and MRSD	8716-4LFHFP (CoA issued in 2000 to Premier Fluid Systems Inc.)	APP_07
Homestaad Foods	4445 Harvester Road	Food Products Supplier	Class I	•Small scale plant •No outside storage •Self contained plant el ow notability of fueltitie amissions	Noise	Outside of MTSA (adjacent to MTSA	PIA and MPSD	NA	APP 08
				•No outside storage •Small scale plant •Low probability of fugitive emissions	Odour				
CSN CARS Auto Collision Ltd East	4471 Harvester Road	Auto Body and Repair Shop - Paint Spray Booth	Class I	Daytime operations only     No outside storage	Noise	General Employment	PIA and MRSD	EASR Registration # R-001-4274572960	APP_09
Thames River Chemical Corp.	5230 Harvester Road	Chemical Manufacturing	Class I	-Self contained plant -Small scale plant +Low probability of fugitive emissions	Odour Noise	General Employment	PIA and MRSD	6658-AR6R8Q	APP_10
Bristol Powdercoat & Shotblast by The Metal Finishing Centre	4-5230 Harvester Road	Powder Coating	Class I	•No outside storage •Self contained plant •Small scale plant •Low probability of fugitive emissions	Odour Noise	General Employment	PIA and MRSD	NA	APP_11
Neil's Auto Body & Sales Ltd.	4431 Harvester Road	Auto Body and Repair Shop - Paint Spray Booth	Class I	•No outside storage •Small scale plant Low probability of fugitive emissions •Daytime operations only	Odour Noise	Outside of MTSA (adjacent to MTSA boundary)	PIA and MRSD	NA	APP_12
				Small scale plant     Low probability of fugitive emissions     Daytime operations only     Indrequent movement of				3268-52LPJ9 (C of A issued in 2004 to 987016 Ontario los: Operation as Bramur Plastics at 1040	
Bramur Plastics	5100 South Service Road Unit 46	Custom Plastic Fabrication	Class I	products and/or heavy trucks	Odour	Urban Employment	PIA and MRSD	Sutton Drive. Facility has relocated to 5100 South Service Road)	APP_13
				•No outside storage	Otaus				
Boehringer Ingelheim (Canada) Ltd.	5180 South Service Road	Pharmaceutical Company	Class I	Self contained plant     Low probability of fugitive emissions	Noise	Urban Employment	PIA and MRSD	CoA (Air) 9275-8FNLK6	APP_14
				No outside storage     Self contained plant     Low probability of fugitive emissions     Infrequent movement of     products and/or heavy					
Seymour-Smith Elecctric Motor & Pump Service Inc.	4380 Harvester Road	Repair Shop - Spray Booth, Oven	Class I	trucks •Daytime operations only	Dust Odour	Outside of MTSA (approx 35 m from MTSA boundary)	PIA	9344-6FJN7C	APP_15
				No outside storage     Self contained plant					
York Warehousing & Transportation	747 Appleby Line	Warehousing Space	Class I	Low probability of fugitive emissions	Noise	Appleby Go Central	PIA and MRSD	NA	APP_16
				No outside storage     Self contained plant     Low probability of fugitive emissions     Infrequent movement of     products and/or heavy					
Lairman A. Lowe	750 Darlene Court	Autobody - Spray Booth	Class I	trucks •Daytime operations only	Odour Noise	Outside of MTSA (approx 250 m from MTSA boundary)	No	9738-68RPPD	APP_17
Hamsar Diversco Inc.	5320 Downey Street	Lighting Manufacturer	Class I	No outside storage     Self contained plant     Low probability of fugitive emissions	Dust Odour Noise	Outside of MTSA (approx 300 m from MTSA boundary)	No	8008-9NMQK9	APP_18
				•No outside storage •Self contained plant •Low probability of fugitive emissions •Infrequent movement of products and/or heavy		Outside of MTSA (approx 410m from MTSA			
Baycomp Company	5035 North Service Road	Fiberglass Product Manufacturing	Class I	trucks	Odour	boundary)	No	3318-ACULX5	APP_19
Ashuny Wilkinson Inc	1115 Sutton Drive	Staal shote ranunling and rapackaging facility	Class I	Solid Contained plant     Low probability of fugitive emissions	Dust	Outside of MTSA (approx 415 m from MTSA	No	4222 BOKMAT	APP 20
Posony vitilitisti tec. Notes: [1]: Industrial classificatio based on crite [2]: Guideline D-5 specifically addresses to odour and dust) may be associated with s [3]: PIA = Potential Influence Area, MRSD [4]: Environmental Permissions were iden	ria provided in Guideline D-6 App he requirements for studies for ni ite operations. = Minimum Recommended Separ tified using the MECP's online dat	Latere anno teochart all to teochartaing atomy endix A. For some industry types, characteristics were assumed based on stainen empacts industry robes, characteristics were assumed based ation Distance, as per Guideline D-6. abase. ECA = Environmental Compliance Approval, CoA = Certificate of A	proval, EASR = Envir	Austification based on high level desktop review of hat have been identified to operate under a Certifie onmental Activity Sectory Registry registration.	aerial imagery and pul aerial imagery and pul cal of Approval, Enviro	Loournerry bildy available online information. onmental Compliance Approval, or Environmen	tal Activity and Sector Registry re	gistration, air contaminant emissions (other than	Inr f_20

Table C 1 Continued -	Summary	of Industries Identified within the Anniehy GO MTSA Study Area	
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Facility Name	Address	Description of Operations	Guideline D-6 Classification	D-6 Classification Justification <sup>[1]</sup>	Potential Nuisance Emissions <sup>[2]</sup>	Location as per Sept 2021 Preliminary Preferred Precinct Plan	MTSA is located within PIA and/or MRSD? <sup>[3]</sup>	Environmental Permissions Identified <sup>(4)</sup> (ECA, CoA, EASR)	Industry ID
Fast Signs	4325 Harvester Road	Sign Manufacturer - Paint Soray Booth, HVAC	Class I	<ul> <li>No outside storage</li> <li>Self contained plant</li> <li>Low probability of fugitive emissions</li> <li>Infrequent movement of products and/or heavy trucks</li> </ul>	Odour	Outside of MTSA (approx 430 m from MTSA boundary)	No	2658-652K3R (CoA issued in 2006 to 1166908 Ontario h.c. operating as Fast Signs)	APP_21
				<ul> <li>No outside storage</li> <li>Self contained plant</li> <li>Low probability of fugitive emissions</li> <li>Infrequent movement of products and/or heavy</li> </ul>		Outside of MTSA (approx 460m from MTSA			
Semtech Canada Corporation	4281 Harvester Road	Electronics Manufacturer - HVAC	Class I	trucks     •Daytime operations only     •Self contained plant	Odour Dust Odour	boundary) Outside of MTSA (approx 475 m from MTSA	No	4205-9HJKN4	APP_22
Aluminum Surface Technologies	1055 Pachino Court	Metal Heat Treating Facility	Class I	Low probability of fugitive emissions     No outside storage     Self contained plant	Noise	boundary) Outside of MTSA (approx 500 m from MTSA	No	NA	APP_23
Pro Distribution Services	1145 Sutton Drive	Material Logistics and Shipping Business	Class I	-Sen contained paint -Low probability of fugitive emissions -No outside storage -Self contained plant -Low probability of fugitive emissions -Infrequent movement of	Noise	boundary)	No	NA	APP_24
Goodrich Aerospace Canada Ltd.	5415 North Service Road	Aerospace Manufacturing	Class I	products and/or heavy trucks +No outside storage +Self contained plant +Low probability of fugitive emissions +Infracuent movement of	Noise	Outside of MTSA (approx 540m from MTSA boundary)	No	NA	APP_25
ALS Canada Ltd.	1435 Norjohn Court	Laboratory	Class I	products and/or heavy trucks	Odour	Outside of MTSA (approx 560 m from MTSA boundary)	No	7132-9Z5HXT	APP_26
Hadrian	965 Syscon Road	Toilet Partition and Locker Manufacturer	Class I	Self contained plant     Low probability of fugitive emissions	Odour Noise	Outside of MTSA (approx 560 m from MTSA boundary)	No	NA	APP_27
				•No outside storage •Self contained plant +Low probability of fugitive emissions •Infrequent movement of products and/or beavy	Odour	Outside of MTSA (approx 560m from MTSA		5220-9Y7KVF	
TCI Powder Coating Canada Inc.	1435 Norjohn Court	Powder Coating	Class I	trucks •No outside storage	Dust	boundary)	No		APP_28
Alsco Canada Corporation	5475 North Service Road	Uniform Supply	Class I	<ul> <li>Self contained plant</li> <li>Low probability of fugitive emissions</li> </ul>	Noise	Outside of MTSA (approx 640 m from MTSA boundary)	No	7000-6HYRHR	APP_29
				•No outside storage •Self contained plant Low probability of fugitive emissions •Infrequent movement of					
Halton District School Board	5151 New Street	Spray Booth and Paint Mix Room Exhaust	Class I	Froducts and/or neavy     trucks     Small scale plant	Odour	boundary)	No	6217-68LQJ5	APP_30
BSB Manufacturing	5316 John Lucas Drive	Machining Manufacturing	Class I	Self contained plant     Low probability of fugitive emissions     No outside storage	Dust Noise	Outside of MTSA (approx 685 m from MTSA boundary)	No	NA (CoA # 9677-7M6MP7 issued to GE Betz Canada in 2009, revoked as per MECP online database)	APP_31
Hunter Amenities International Ltd.	1205 Corporate Drive	Spa Supplier - HVAC	Class I	Small scale plant     Small scale plant     Small scale plant     Low probability of fugitive emissions     No outside storage	Odour Noise	Outside of MTSA (approx 685 m from MTSA boundary)	No	7148-B8FKQW	APP_32
Parkway Collision	4169 Harvester Road	Autobody - Paint Booth	Class I	Small scale plant     Low probability of fugitive emissions     Daytime operations only	Odour Noise	Outside of MTSA (approx 690 m from MTSA boundary)	No	7737-5VST67 (CoA issued in 2004 to 567179 Ontario Inc.)	APP_33
				No outside storage     Small scale plant     Self contained plant		Outside of MTSA (approx 800 m from MTSA		EASR Registration R-010-7110473513, issued to Natrix Separations Inc. in 2018. MilliporeSigma has	
MilliporeSigma	5295 John Lucas Drive	Biotechnology Company	Class I	Low probability of fugitive emissions +No outside storage +Small scale plant -Self contained plant Low probability of fugitive emissions +infrequent movement of products or adde because	Odour	boundary)	No	since acquired Natrix Separations Inc.	APP_34
M.G. Chemicals Ltd.	1210 Corporate Drive	Chemical Manufacturing	Class I	trucks	Odour	boundary)	No	7496-8SBQ7R	APP_35
				Conservation of permitted uses under MAC. (Commercial Corridor) zoning (City of Burlington Zoning Bylaw 2020). MXC permitted uses are consistent with Class I examples shown in Table 1. Permitted uses have potential to allow for: No outside storage Solf contained plant	Odour				
Vacant	4415 Fairview Street	Unknown/Vacant	Class I	Low probability of fugitive emissions     Medium level of production allowed     way probability of fugitive emissions	Noise	Fairview Frequent Transit Corridor	PIA and MRSD	NA	APP_36(V)
				•Frequent movement of products and/or heavy trucks with the majority of movements during	Dust Odour				
Lungit Limited	DJUD Harvester Road	rooo wexnufacturing		Leayume Roura Permitted uses under MPE zoning includes GE2 permitted uses (Day of Burlington Zoning Bylaw Z020), GE2 uses are consistent with Class II somples shown in Table I. Permitted uses have zondististe storage 	Dust Odour	ruemenal Employment	In and MKSU	powe-srkfitz NA (ECA exists for Fisher & Ludlow Steel, which is	<u>ww_3/</u>
Unoccupied or unknown facility use	750 Appleby Line	Unknown	Class II (potentially)	Low probability of fugitive emissions     Outside storage permitted     Frequent movement of products and/or boows	Noise	Fairview Frequent Transit Corridor	PIA and MRSD	believed to no longer occupy the facility)	APP_38
Halton Chemical Inc.	840 Appleby Line	Chemical Blends Manufacturer	Class II	trucks with the majority of movements during daytime hours	Odour Noise	Urban Employment	PIA and MRSD	6504-9KBL97	APP_39
				<ul> <li>Outside storage permitted</li> <li>Frequent movement of products and/or heavy trucks with the majority of movements during</li> </ul>	Dust Odour				
Henniges Automotive Schlegel Notes:	4445 Fairview Street	Automotive material manufacturing	Class II	daytime hours	Noise	Fairview Frequent Transit Corridor	PIA and MRSD	8300-AKELUU	APP_40
<ol> <li>Cuideline D-6 specifically addresses the odour and dust) may be associated with al [3]: PIA = Potential Influence Area, MRSD = [4]: Environmental Permissions were identified.</li> </ol>	e requirements for studies for ni te operations. = Minimum Recommended Separ field using the MECP's online dat	ation to a constraint industry types, transformative model assumed based of ation bitance impacts including noise, withration, dust, and odour. For regulated ation Distance, as per Guideline D-6. abase. ECA = Environmental Compliance Approval, CoA = Certificate of A	Approval, EASR = Envi	that have been identified to operate under a Certific ronmental Activity Sectory Registry registration.	al of Approval, Enviro	onmental Compliance Approval, or Environmen	tal Activity and Sector Registry re	gistration, air contaminant emissions (other than	

Table C.1 Continued - Summ	nary of Industries Identif	edwithin the Appleby GO MTSA Study Area							
Facility Name	Address	Description of Operations	Guideline D-6 Classification	D-6 Classification Justification <sup>(1)</sup>	Potential Nuisance Emissions <sup>[2]</sup>	Location as per Sept 2021 Preliminary Preferred Precinct Plan	MTSA is located within PIA and/or MRSD? <sup>[3]</sup>	Environmental Permissions Identified <sup>[4]</sup> (ECA, CoA, EASR)	Industry ID
Approved Cold Storage Inc.	5100 Harvester Road	Cold Storage Facility	Class II	Period outputs of minor annoyances     Frequent movement of products and/or heavy     trucks with the majority of movements during     daytime hours     Voen oncers	Noise	Urban Employment	PIA and MRSD	NA	APP_41
				-Open process -Outside storage permitted -Medium level of production allowed -Frequent movement of products and/or heavy trucks with the majority of movements during daytime hours					
Lafarge Canada Inc.	800 Appleby Line	Ready Mix cement plant	Class II	Assumptions: No on-site crushing operations + Facility operating in accordance with environmental approval (e.g., BMPP for Fugitive Dust Control) Permitted uses under MMZ zoning includes GE2 permitted uses (City of Burlington Zoning Bylaw	Dust Noise	Urban Employment	PIA and MRSD	8783-6P7RER	APP_42
Too Notch Cabinets Inc.		Cabinet Maker	Class II (based on existing woodworking operations and MXE	2020). GE2 uses are consistent with Class II examples shown in Table 1. Existing wood working use and permitted uses have potential to allow for: Outside storage Medium production levels 9 Daily shift operations Pertodic outputs of minor approvance	Dust	Outside of MTSA (adjacent in MTSA			
Unoccupied unit (available for lease)	4355 Fairview Street	Unknown/Vacant	zoning for vacant unit	Low probability of fugitive emissions	Noise	boundary)	PIA and MRSD	NA	APP_43
				Permitted uses under MXE zoning includes GE2 permitted uses (City of Burlington Zoning Bytaw 2020), GE2 uses are consistent with Class II examples shown in Table 1. Permitted uses have potential to allow for: Outside storage Wedium production levels Duits bit meantions	Durt				
Vacant	5091 Fainiew Street	Linknown Macant	Class II (potentially)	Periodic outputs of minor annoyance     or probability of function emissions	Odour	Faipiew Frequent Transit Corridor	PIA and MRSD	NA	APP 44(V)
				Outside storage permitted Medium production levels Frequent movement of products and/or heavy					
Liebherr-Canada	1015 Sutton Drive Burlington	Machinery repair and maintenance	Class II	daytime hours	Noise	boundary)	PIA	4378-AHXPW2	APP_45
				<ul> <li>We down production levels</li> <li>Frequent movement of products and/or heavy trucks with the majority of movements during daytime hours</li> </ul>	Dust Odour	Outside of MTSA (approx 140 m from MTSA			
Voortman Cookies Limited	4455 North Service Road	Cookie Manufacturing	Class II	Periodic outputs of minor annoyance     Outside storage permitted	Noise	boundary)	PIA	9944-5B7MAJ	APP_46
				<ul> <li>Frequent movement of products and/or heavy trucks with the majority of movements during daytime hours</li> </ul>	Dust Odour	Outside of MTSA (approx 150 m from MTSA		7843-7XARTG (CoAissued in 2006 to Cargill	
Dawn Food Products, Inc.	4370 Harvester Road	Baking Ingredients Manufacturer	Class II	Periodic outputs of minor annoyance	Noise Dust	boundary)	PIA	Canada Holdings III (2006) Inc.)	APP_47
Teff-Line Limited	4415 North Service Road	Industrial Coating Services - Spay booth and oven	Class II	Outside storage permitted     Low probability of fugitive emissions     Outside storage permitted     Compared and the basis	Odour Noise	Outside of MTSA (approx 160 m from MTSA boundary)	PIA	1029-63SLX9 R-010-9110626365	APP_48
Cantals Buildian Deaduate Limited	1001 Company Drive	Duilding Departments	Class II	<ul> <li>request movement or products and/or neavy trucks with the majority of movements during during the second</li> </ul>	Odour	Outside of MTSA (approx 200m from MTSA	DIA		400.40
Comer conting i rodice cinnico	Toor corporate prive	banang roodca	Child S II	Outside storage permitted     Frequent movement of products and/or heavy     trucks with the majority of movements during	Odour	Outside of MTSA (approx 570m from MTSA	1.15		
Strongco Limited Partnershi	1051 Heritage Road	Construction Equipment Supplier	Class II	daytime hours Outside storage permitted Frequent movement of products and/or heavy	Noise	boundary)	No	1819-7U7LA6	APP_50
Bericap Inc.	835 Syscon Court	Plastic Product Manufacturing	Class II	trucks with the majority of movements during daytime hours	Odour Noise	Outside of MTSA (approx 600 m from MTSA boundary)	No	1136-5ZCNBU	APP_51
				Outside storage permitted Frequent movement of products and/or heavy trucks with the majority of movements during					
Crawford Metal Corporation	1091 Heritage Road	Steel Distributor	Class II	Medium level of production allowed	Noise	boundary)	No	NA	APP_52
Atotech Canada Ltd.	1180 Corporate Drive	Plating Services	Class II	Cow probability of fugitive emissions     Medium level of production allowed     Outside storage permitted	Odour	boundary)	No	9080-BZ6PEQ	APP_53
Capo Industries Limited	1200 Corporate Drive	Chemical Manufacturing	Class II	<ul> <li>Frequent movement of products and/or heavy trucks with the majority of movements during daytime hours</li> </ul>	Odour	Outside of MTSA (approx 750m from MTSA boundary)	No	3928-93LTJP	APP_54
				<ul> <li>Frequent movement of products and/or heavy trucks with the majority of movements during</li> </ul>	Odour	Outside of MTSA (approx 750m from MTSA			
Samuel, Son & Co.	1250 Appleby Line	Manufacturing - Carpentry, HVAC, Steel distribution	Class II	Advance of the storage permitted	Odour Noise	Doundary) Outside of MTSA (approx 780m from MTSA boundary)	No	NA 1786-A5EM9P	APP_55
		Loss Gazing Faciny	Chursh	Large production levels     High probability of fugitive emissions	Dust	boundaryy			MT _00
Fearman's Pork-Sofina Foods Inc.	821 Appleby Line	Pork Processing Facility	Class III	Continuous movement of products and employees	Odour Noise	Urban Employment	PIA and MRSD	4494-685MWW	APP_57
		<b>6</b>	21	Open process     Outside storage of raw and finished products     Large production levels	Noise	General Employement and Urban			100.50
Dominion Nickel Aloys	834 Appleby Line	Scrap metai recycling company	class II	Open process     Open process	Dust	Employment	PIA and MRSD	NA	APP_58
AIM Recycling Burlington	4350 Harvester Road	MetalRecycling Center	Class III	Conside storage of raw and initiated products     Large production levels     High probability of fugitive emissions	Dust Noise	Outside of MTSA (approx 30 m from MTSA boundary)	PIA and MRSD	NA	APP_59
I sural Steel Adiatrics of Marris Pro-118	C 6400 Managerier Road	Steal Product Manufacturing from Durchas ed Steal	Ciner III	Large production levels	Odour	Outside of MTSA (approx 30m from MTSA	O29M box AI9	RED2-ARMOOK	APP 60
and the second s	- FOOT HE WANTED FLORE			Outside storage of raw and finished products Large production levels	Noise	Outside of MTSA (approx 100m from MTSA			
Triple M Burlington	961 Zelco Drive	Scrap metal recycling facility, End-of-life Vehicle Waste Disposal Site	Class III	High probability of fugitive emissions Outside storage of raw and finished products Large production levels	Dust Dust Odour	boundary) Outside of MTSA (approx 370 m from MTSA	PIA and MRSD	EASR Registration #R-007-3111981090	APP_61
Associate Paving & Materials	850 Sys con Court	Hot Mix Asphalt Plant	Class III	High probability of fugitive emissions Class III based on permitted uses under GE1	Noise	boundary)	PIA	8840-BCENZE	APP_62
				zoning (City of Burlington Zoning Bylaw 2020). are consistent with Class II and Class III examples. Zoning designation has potential to allow for:					
Manage	F200 Maximum Band	I below a Manual	Class III (astas	Cutside storage permitted     Large production levels     Daily shift operations     Continuous movement of products     disk perket literations	Dust Odour	Liber Frederica	Dia and MD CD		ADD 6304
vacant	15200 Harvester Road	Unknown/vacant	ILlass III (potentially)	region propability of fugitive emissions	INDISE	Urpan Employment	IPVA and MRSD	INA	IAPP 63(V)

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### APPLEBY GO MTSA POTENTIAL INFLUENCE AREA

FIGURE C.3

- MTSA Boundary as per December 2021 Preliminary Preferred Precinct Plan
- Study Area (1 km)
- Railway
- Expressway / Highway / Freeway
- Ramp
- Arterial Road
- Collector Road
- Local Road
- Watercourse
- Waterbody

#### Industrial Classification

- Class I
- Class 2
- Class 3
- Potential Influence Area (PIA) Coverage
- Area of PIA Overlap







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## APPLEBY GO MTSA MINIMUM RECOMMENDED SEPARATION DISTANCE

FIGURE C.4

- MTSA Boundary as per December 2021 Preliminary Preferred Precinct Plan
- Study Area (1 km)
- Railway
- Expressway / Highway / Freeway
- Ramp
- Arterial Road
- Collector Road
- Local Road
- Watercourse
- Waterbody

#### Industrial Classification

- Class I
- Class 2
- Class 3
- Recommended Minimum Separation Distance (RMSD) Coverage
- Area of RMSD Overlap

0	125	250	500 m	SCALE 1:15,000	"D
MAP DATA	DRAWIN PROVID	g informa Ed by mnrf	TION: CITY OF BURLING	GTON	
MAP MAP MAP	CREATED CHECKE PROJECT	) by: lk / dr d by: ch ion: nad 19	983 UTM Zone 17N		
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				PROJECT: 212562	
-	DU	ION		STATUS: DRAFT	
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#### APPLEBY GO MTSA NON-CONVERTED (EMPLOYMENT) CLASS III INDUSTRIES FIGURE C.5

MTSA Boundary as per December 2021

	Preliminary Preferred Precinct Plan Study Area (1 km)
	Railway
—	Expressway / Highway / Freeway
	Ramp
	Arterial Road
	Collector Road
	Local Road

- Watercourse
- Waterbody
- Parcel Fabric
- 6 Maximum Height (Storeys) \*
- Non-Converted Class III Industry
- Recommended Minimum Separation Distance (RMSD) Coverage
- Area of RMSD Overlap

0	125	250	500 m	SCALE 1:15,000	* ~
MAP	DRAWIN	g informa	TION:		
DATA	A PROVID	ED BY MNRF	CITY OF BURLING	GTON	
MAP MAP	CREATED CHECKE	D BY: LK / DR D BY: CH			
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# **Appendix D**

Recommended Preliminary Preferred Precinct Plans (December 2021)



The Corporation of the City of Burlington Major Transit Station Areas Land Use Compatibility Study May 2023 – 21-2562





