



COUNCIL INFORMATION PACKAGE

SUMMARY

SEPTEMBER 3, 2021

1. **C-270-2021**
Correspondence dated August 28, 2021, from the Township of Larder Lake, to The Honourable Justin Trudeau, respecting a motion to support the Town of Cochrane's motion requesting that the Federal and Provincial Governments to include the PSA Test for men into the national health care system.
2. **C-271-2021**
Correspondence dated September 1, 2021 from the Region of Niagara respecting a Memorandum from R. Tripp, Chief Administrative Officer, regarding COVID-19 Vaccination Policy Update.
3. **C-272-2021**
Correspondence dated August 31, 2021, from the Town of Plympton-Wyoming to The Honourable Justin Trudeau, respecting a motion in support of the City of Kitchener's motion regarding Bill-C 313 Banning Symbols of Hate Act.
4. **C-273-2021**
Correspondence dated August 31, 2021, from the Town of Plympton-Wyoming to The Honourable Justin Trudeau, respecting a motion to support the Municipality of Chatham-Kent's motion requesting support for affordable internet for all Canadians.
5. **C-274-2021**
Correspondence dated September 2, 2021, from the Region of Niagara, respecting a motion passed by Council approving recommendations of its Planning & Economic Development Committee regarding Land Use Compatibility Guidelines (PDS 34-2021).
6. **C-275-2021**
Correspondence dated August 10, 2021, from the Town of Gananoque, respecting a motion to maintain virtual meetings for Council and Committees until Public Health lifts the requirements for wearing masks and social distancing in indoor settings.
7. **C-276-2021**
Correspondence dated August 28, 2021, from the Niagara Region, respecting NRT OnDemand metrics for August.
8. **C-277-2021**
Correspondence dated August 25, 2021, from the City of Port Colborne to the Office of the Regional Clerk, supporting the City of Welland's motion requesting Niagara Region to maintain existing grants and incentive programs.

9. **C-278-2021**
Correspondence dated September 3, 2021, from the City of St. Catharines to The Honourable Doug Ford, with a motion requestcomprehs

Received August 30, 2021
C-270-2021



THE CORPORATION OF THE TOWNSHIP OF LARDER LAKE
69 FOURTH AVENUE, P. O. BOX 40, LARDER LAKE, ON P0K 1L0
PH: 705-643-2158 FAX: 705-643-2311
LARDERLAKE.CA

The Honourable Justin Trudeau
Prime Minister of Canada
Office of the Prime Minister
80 Wellington Street
Ottawa, ON K1A 0A2

August 27, 2021

Re: Town of Cochrane Motion to Include the PSA Test for Men into the Medical Care

Please be advised that on August 24th, 2021 the Township of Larder Lake Council passed the following motion to support the Town of Cochrane's motion (attached) requesting that the Federal and Provincial Governments move to have the PSA Test for men included in the national health care system and that it be made available for all Canadian men at no charge.

Motion 8

Moved by Paul Kelly, Seconded by Thomas Armstrong that Council hereby supports item 6.1 of letters and communications from the Town of Cochrane regarding inclusion of the PSA test for men into medical care.

Motion Carried.

If you have any questions regarding the above motion, please do not hesitate to contact me by phone or email at crystallabbe@larderlake.ca.

Sincerely,

Crystal Labbe
CAO
Township of Larder Lake

Cc: (via e-mail)

Hon. Doug Ford
Hon. Patty Jajdu, Minister of Health
Hon. Christine Elliott, Deputy Premier and Minister of Health (Ontario)
All Municipalities

THE CORPORATION OF THE TOWNSHIP OF LARDER LAKE
69 Fourth Avenue, Larder Lake, ON
 Phone: 705-643-2158 Fax: 705-643-2311



MOVED BY:

- Thomas Armstrong
- Patricia Hull
- Paul Kelly
- Lynne Paquette

SECONDED BY:

- Thomas Armstrong
- Patricia Hull
- Paul Kelly
- Lynne Paquette

Motion #: 8

Resolution #: 8

Date: August 24, 2021

THAT, Council hereby supports item 6.1 of letters and communications from the Township of Cochrane regarding inclusion of the PSA test for men into medical care.

Recorded vote requested:

	For	Against
Tom Armstrong	✓	
Patricia Hull	✓	
Paul Kelly	✓	
Lynne Paquette	✓	
Patty Quinn	✓	

I declare this motion

<input checked="" type="checkbox"/> Carried
<input type="checkbox"/> Lost / Defeated
<input type="checkbox"/> Deferred to: _____ (enter date)
Because:
<input type="checkbox"/> Referred to: _____ (enter body)
Expected response: _____ (enter date)

Disclosure of Pecuniary Interest*

Chair:

*Disclosed his/her (their) interest(s), abstained from discussion and did not vote on this question.



Administration

Office of the Regional Clerk

1815 Sir Isaac Brock Way, PO Box 1042, Thorold, ON L2V 4T7

Telephone: 905-980-6000 Toll-free: 1-800-263-7215 Fax: 905-687-4977

www.niagararegion.ca

September 1, 2021

CL 15-2021, August 26, 2021

LOCAL AREA MUNICIPALITIES

NIAGARA PENINSULA CONSERVATION AUTHORITY

NIAGARA REGIONAL POLICE SERVICE

SENT ELECTRONICALLY

Re: Memorandum CAO 17-2021 COVID-19 Vaccination Policy Update

Regional Council, at its meeting held on August 26, 2021, passed the following motion:

1. That CAO 17-2021, being a memorandum from R. Tripp, Chief Administrative Officer, dated August 26, 2021, respecting COVID-19 Vaccination Policy Update, **BE RECEIVED**;
2. That staff **BE DIRECTED** to develop and implement a policy, and any required procedures, to require all Regional employees to be fully vaccinated against COVID-19, at the earliest opportunity, subject to and in compliance with any applicable legal directives and requirements, including but not limited to applicable human rights obligations, accommodation of employees legally entitled to accommodation, MFIPPA and PHIPA;
3. That Regional Council **APPROVE** that the applicable provisions of the above-mentioned vaccination policy include members of Regional Council who wish to attend in-person meetings (including Committee and Council), conduct business on Regional property or facilities, or attend official events in their capacity as a Regional Councillor; and
4. That a copy of this resolution **BE PROVIDED** to the Local Area Municipalities, and the Region's agencies boards and commissions, namely NRPS and NPCA.

A copy of Memorandum CAO 17-2021 is attached for your reference.

Yours truly,

A handwritten signature in black ink, appearing to read "Ann Marie", with a long, sweeping flourish extending to the right.

Ann-Marie Norio
Regional Clerk

CLK-C 2021-145

MEMORANDUM

CAO 17-2021

Subject: COVID-19 Vaccination Policy Update

Date: August 26, 2021

To: Regional Council

From: Ron Tripp, P.Eng., Acting Chief Administrative Officer

This memo is to provide an update on the Region's efforts concerning the Ontario Provincial Government (the "Province") making COVID-19 vaccination policies mandatory for high-risk settings.

Background

As members of Council are aware, on August 17, 2021, the Province announced its intention to require businesses operating in certain high-risk settings to implement COVID-19 vaccination policies. In addition, and citing concerns about the transmissibility of the Delta variant, the Province also announced, among other things, that it was pausing the it's exit from the Roadmap to Reopen.

The Province cites this direction is intended to protect vulnerable patients and staff in settings where the risk of contracting and transmitting COVID-19 and the Delta variant is higher, as a result the Chief Medical Officer of Health has issued a directive mandating hospitals and home and community care service providers to have a COVID-19 vaccination policy for employees, staff, contractors, students and volunteers, and for ambulance services to have a COVID-19 vaccination policy for paramedics.

The vaccination policy must be effective no later than September 7, 2021, and at a minimum will require these individuals to provide proof of one of three things:

- Full vaccination against COVID-19;
- A medical reason for not being vaccinated against COVID-19; or
- Completion of a COVID-19 vaccination educational session.

Individuals who do not provide proof of full vaccination against COVID-19 will be required to undertake regular antigen testing. Businesses will be required to track and report on the implementation of their policies to the Province. This is similar to the vaccination policy requirements currently in place for long-term care homes, which have already been in effect since July 1, 2021.

Vaccination policies will also be required to be implemented in other higher-risk settings such as:

- Public funded schools and private schools;
- Licensed child care settings;
- Post-secondary institutions;
- Licensed retirement homes;
- Women's shelters; and
- Congregate group homes and day programs for adults with developmental disabilities, children's treatment centres and other services for children with special needs, and licensed children's residential settings.

Lastly, the directive also requires businesses to collect, maintain, and disclose statistical (non-identifiable) information as requested by the Province.

Region Next Steps

In order to achieve compliance to the Province's directive, a working group has been established with staff representation from each of our identified high risk settings; with the support of staff from Human Resources, Legal Services, and Public Health. The focus of this group is to establish, implement, and ensure compliance with a COVID-19 vaccination policy and procedures. I have been in discussions with the Local CAO group, kept them apprised of our direction, including have committed to keep the lines of communication on this issue open with them.

The vaccination policy and procedures will require staff, contractors, volunteers, and students to provide one of the following:

1. Proof of full vaccination against COVID-19 (i.e. proof of having received the full series of a vaccine or combination of vaccines approved by the World Health Organization, and having received the final dose of the vaccine at least 14 days ago);
2. Written proof of a medical reason, provided by a physician or registered nurse in the extended class that sets out: (i) a documented medical reason for not being fully vaccinated against COVID-19, and (ii) the effective time-period for the medical reason; or
3. Proof of completing an educational session about the benefits of COVID-19 vaccination prior to declining vaccination for any reason other than a medical reason. Such education session may be one prepared by the Region or another

one that must be approved by the Region and, at minimum, address the following topics:

- a. How COVID-19 vaccines work;
- b. Vaccine safety related to the development of the COVID-19 vaccines;
- c. The benefits of vaccination against COVID-19;
- d. Risks of not being vaccinated against COVID-19; and
- e. Possible side effects of COVID-19 vaccination.

Further, under the directive, Region's policy must also require that where staff, contractors, volunteers, or students do not provide proof of being fully vaccinated, they must submit to regular antigen point of care testing for COVID-19 and demonstrate a negative result at least once every seven days, or more frequently as may be determined by the Region. Outside of long term care, the Region will not be providing this test. As a result, the onus will fall on staff, contractors, volunteers, or students to provide the Region with verification of the negative test in a prescribed manner that enables the Region to confirm the result.

It should be noted that the directive provides for accommodation of unvaccinated individuals who provide a medical basis for their unvaccinated status, the more general duty to accommodate under the Human Rights Code (the "Code") can be triggered for reasons other than disability. For instance, creed is also a protected ground under the Code. Where, for example, an individual provides a religious basis for being unvaccinated, the duty to accommodate under the Code may be triggered. These considerations will be captured in our policy, and are still being reviewed at this time.

Finally, the policy will ensure that the required statistical data will be recorded and maintained.

We are still awaiting further details to be released from the Province, including more information and clarity from the various ministries. We are aware that the City of Toronto, the Province, and perhaps additional municipalities will soon also announce they are implementing vaccination policies that apply to all employees. At the moment our focus remains on following the Province's directive that businesses operating in identified high-risk settings will require policies to be implemented by September 7, 2021. That said, our focus on the development of a vaccination policy and procedures will also remain nimble in the event it is determined appropriate to pivot and act quickly to implement such a policy in other areas, including as far as including all Region staff, contractors, volunteers, or students. Council will continued to be provided any updates as appropriate.

Respectfully submitted and signed by

Ron Tripp, P.Eng.
Acting Chief Administrative Officer



Right Honourable Justin Trudeau
Prime Minister of Canada
Office of the Prime Minister
80 Wellington Street
Ottawa ON K1A 0A2
(via e-mail)

August 31st 2021

Attention: Prime Minister Trudeau

Re: Bill-C 313 Banning Symbols of Hate Act

Please be advised that on August 25th 2021 the Town of Plympton-Wyoming Council passed the following motion to support the Council of the City of Kitchener's motion (attached) requesting that the Federal and Provincial Governments to support MP Peter Julian's motion M-84 Anti-hate Crimes and Incidents and Private Member's Bill - C 313 Banning Symbols of Hate Act.

Motion 12

Moved by Muriel Wright, Seconded by Gary Atkinson that Council supports correspondence item 'g' from the City of Kitchener regarding Anti-Hate Crimes Incidents Bill C-313 Banning Symbols of Hate Act.

Motion Carried.

If you have any questions regarding the above motion, please do not hesitate to contact me.

Sincerely,

Erin Kwarciak
Clerk
ekwarciak@plympton-wyoming.ca

Cc: (via e-mail)

- Hon. Minister Steve Clark
- Hon. Minister Parm Gill
- Lianne Rood, MP, Lambton-Kent-Middlesex
- Monte McNaughton, MPP, Lambton-Kent-Middlesex
- Marilyn Gladu, MP, Sarnia-Lambton
- Bob Bailey, MPP, Sarnia-Lambton
- Association of Municipalities of Ontario (AMO)
- Federation of Canadian Municipalities (FCM)
- All Ontario Municipalities



CHRISTINE TARLING
Director of Legislated Services & City Clerk
Corporate Services Department
Kitchener City Hall, 2nd Floor
200 King Street West, P.O. Box 1118
Kitchener, ON N2G 4G7
Phone: 519.741.2200 x 7809 Fax: 519.741.2705
christine.tarling@kitchener.ca
TTY: 519-741-2385

July 12, 2021

Right Honourable Justin Trudeau
Prime Minister of Canada
Office of the Prime Minister
80 Wellington Street
Ottawa ON K1A 0A2

Dear Prime Minister Trudeau:

This is to advise that City Council, at a meeting held on Monday June 28, 2021, passed the following resolution with respect to Motion M-84 Anti-Hate Crimes and Incidents and private member's bill Bill-C 313 Banning Symbols of Hate Act:

"WHEREAS racism and hate crimes in Kitchener have been on the rise since the start of the global pandemic; and,

WHEREAS the City of Kitchener continues to seek opportunities to dismantle systemic racism; and,

WHEREAS the City's Strategic Plan has identified Caring Community as a priority, and the proposed motion M-84 Anti-hate crimes and incidents and private member's bill Bill-C 313 Banning Symbols of Hate Act supports several of the bodies of work currently being moved forward under this strategic goal; and,

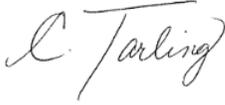
WHEREAS MP Peter Julian's motion M-84 Anti-hate crimes and incidents and private member's bill Bill-C 313 Banning Symbols of Hate Act is an opportunity to make all Canadians feel safer in the communities that they live;

THEREFORE IT BE RESOLVED that the City of Kitchener endorses MP Peter Julian's private member's motion, Motion M-84 Anti-Hate Crimes and Incidents and his private member's bill Bill-C 313 Banning Symbols of Hate Act; and,

THEREFORE BE IT FURTHER RESOLVED that a copy of this resolution be sent to the Right Honourable Justin Trudeau, Minister of Municipal Affairs Steve Clark, Minister of Citizenship and Multiculturalism Parm Gill, to the local

MP's and MPP's, to the Federation of Canadian Municipalities, to the Association of Municipalities Ontario, and all other municipalities in Ontario.”

Yours truly,



C. Tarling
Director of Legislated Services
& City Clerk

c: Hon. Minister Steve Clark
Hon. Minister Parm Gill
Mike Harris (Kitchener Conestoga), MPP
Amy Fee (Kitchener South-Hespeler), MPP
Laura Mae Lindo (Kitchener Centre), MPP
Catherine Fife (Waterloo), MPP
Raj Saini (Kitchener Centre), MP
Tim Louis (Kitchener Conestoga), MP
Bardish Chagger (Waterloo), MP
Marwan Tabbara (Kitchener South-Hespeler), MP
Association of Municipalities of Ontario (AMO)
Ontario Municipalities



Right Honourable Justin Trudeau
Prime Minister of Canada
Office of the Prime Minister
80 Wellington Street
Ottawa ON K1A 0A2
(via e-mail) Justin.Trudeau@parl.gc.ca

The Honourable Francois—Philippe Champagne
Minister of Innovation, Science and Industry
Francois-Philippe.Champagne@parl.gc.ca

August 31st 2021

Attention: Prime Minister Trudeau

Re: Council Resolution Supporting Affordable Internet

Please be advised that on August 25th 2021 the Town of Plympton-Wyoming Council passed the following motion to support the Council of the Municipality of Chatham-Kent (attached) requesting that the Federal and Provincial Governments support affordable internet for all Canadians.

Motion 12

Moved by Muriel Wright, Seconded by Gary Atkinson that Council supports correspondence item 'f' from the Municipality of Chatham-Kent regarding Affordable Internet'

Motion Carried.

If you have any questions regarding the above motion, please do not hesitate to contact me.

Sincerely,

Erin Kwarciak
Clerk
ekwarciak@plympton-wyoming.ca

Cc: (via e-mail)

- Hon. Minister Steve Clark
- Association of Municipalities of Ontario (AMO)
- Bob Bailey, MPP, Sarnia-Lambton
- Federation of Canadian Municipalities (FCM)
- Marilyn Gladu, MP, Sarnia-Lambton
- All Ontario Municipalities
- Monte McNaughton, MPP, Lambton-Kent-Middlesex
- Lianne Rood, MP, Lambton-Kent-Middlesex

August 11, 2021

The Right Honourable Justin Trudeau
Prime Minister of Canada
Justin.Trudeau@parl.gc.ca

Federal Cabinet
Via email to each Minister

The Honourable François-Philippe Champagne
Minister of Innovation, Science and Industry
Francois-Philippe.Champagne@parl.gc.ca

Re: Council Resolution Supporting Affordable Internet

Please be advised the Council of the Municipality of Chatham-Kent at its regular meeting held on August 9, 2021 passed the attached resolution.

Internet is a necessity, not a luxury for the vast majority of Canadians – a fact that has been highlighted throughout the ongoing COVID-19 pandemic. However, despite being an essential utility, too many people are struggling to afford reliable internet services, while some don't have access to broadband internet at all. Ontario residents, and Canadians from coast to coast to coast, should never have to choose between paying their internet bill and other essentials such as food, medication, or housing expenses.

On May 27th, the Canadian Radio-television and Telecommunications Commission (CRTC) arbitrarily reversed its 2019 Rates Order concerning wholesale internet rates charged by Canada's largest carriers to smaller companies. This decision was devastating for consumers as it effectively guarantees internet prices will continue to rise despite the fact that Canadians already pay some of the highest internet prices in the world. Additionally, this decision directly impacts many smaller internet service providers (ISPs) and threatens hundreds of well-paying jobs and tens of millions in investments that would benefit communities in Ontario.

Issued in August of 2019, the CRTC's 2019 Rates Order confirmed the large carriers [systematically broke](#) rate-setting rules to grossly inflate their costs of providing network access. The CRTC set new rates and ordered the large carriers to repay amounts they overcharged competitors during its proceeding. The 2019 Rates Order was based on a rigorous, evidence-based, 4-year long regulatory process. It was upheld on appeals by the Federal Court of Appeal, the Supreme Court of Canada, and the Federal Cabinet and was widely expected to be implemented this year. Instead, the CRTC arbitrarily and completely reversed the 2019 Rates Order, a decision that harms competition, reduces customer choice, and ignores the real and urgent need for affordable internet in Canada.

Not only do rural and remote communities continue to struggle to gain access to affordable broadband internet, the digital divide and lack of affordability remain an issue across all communities in Ontario, and Canada. For example, [a recent report by the Brookfield Institute at Ryerson University](#) found that more than a third of households in Toronto are worried about paying their home internet bills over the next few months. More than half of the city's low-income households also have download speeds below the national target of 50 megabits per second. Many rural and remote communities don't have access to broadband, or any internet services, at all. This would be problematic in the best of times, but is even more so now as the pandemic has made high-speed, affordable internet a necessity for education, work, and health care.

[A 2020 price study prepared by Wall Communications Inc.](#) for ISED found that internet prices increased across all service baskets over 2019, making Canada an international outlier among its peer countries. Without intervention from the federal government, who in 2019 promised to reduce internet prices for all Canadians, there is no doubt that this trend will continue.

The Federal Cabinet must overturn the decision now to ensure that affordable internet becomes a reality, not just an ideal. We are sharing this letter and Council resolution with representatives of, and leaders in, communities across Canada. We urge you and them to make this important issue your own, as it directly affects the people in their regions, and across Canada. As you all know, internet is now a necessary utility to all Canadians similar to gas, hydro, water and electricity. The CRTC decision has impacted over 1,200 small ISP's across Canada, thousands of jobs in your communities and negatively impacts millions of Canadians ability to receive affordable internet.

We would welcome the opportunity to discuss this critical issue with you at your earliest convenience, and to work together in making our concerns heard in support of affordable internet for all.

Sincerely,

A handwritten signature in black ink, appearing to read 'D. Canniff', written in a cursive style.

Darrin Canniff, Mayor/CEO
Municipality of Chatham-Kent

Attachment: Council Resolution Supporting Affordable Internet

C: (via email)
Honourable Doug Ford, Premier of Ontario
Dave Epp, MP, Chatham-Kent-Leamington
Lianne Rood, MP, Lambton-Kent-Middlesex
Rick Nicholls, MPP, Chatham-Kent-Leamington
Monte McNaughton, MPP, Lambton-Kent-Middlesex
Association of Municipalities of Ontario (AMO)
Federation of Canadian Municipalities (FCM)
All Ontario Municipalities

Whereas internet connectivity is a basic necessity and essential utility for the vast majority of Canadians;

Whereas too many Canadians struggle to afford reliable, high-speed internet services, or do not have access to broadband internet at all;

Whereas the need for high-speed and affordable internet is always critical, but is even more so now as the COVID-19 pandemic has shown it is required for education, work, and health care;

Whereas independent studies have consistently shown that Canadians pay some of the highest prices for internet in the world and that internet prices have increased year over year;

Whereas the Canadian Radio-television and Telecommunications Commission's (CRTC) 2019 Rates Order set wholesale internet prices that would facilitate greater competition and promote innovative broadband services and more affordable prices for consumers;

Whereas the 2019 Rates Order was based on a rigorous, evidence-based, 4-year long regulatory process, and was upheld on appeal by unanimous decision of the Federal Court of Appeal, while the Supreme Court of Canada and the Federal Cabinet declined to review it;

Whereas on May 27, 2021, the CRTC decided to reverse its 2019 Rates Order, effectively guaranteeing that internet prices will continue to rise for consumers;

Now therefore be it resolved that the Municipality of Chatham-Kent call on the Federal Cabinet, Prime Minister Justin Trudeau, and ISED Minister Francois-Phillippe Champagne to overrule the CRTC's reversal and immediately implement the evidence-based 2019 Rates Order.

Be it further resolved that the Premier of Ontario, Ontario Minister of Industry, local MPPs, the Association of Municipalities of Ontario, all 444 Ontario municipalities and the Federation of Canadian Municipalities be sent correspondence of Council's resolution along with the attached letter.



Administration

Office of the Regional Clerk

1815 Sir Isaac Brock Way, PO Box 1042, Thorold, ON L2V 4T7

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www.niagararegion.ca

September 2, 2021

CL 15-2021, August 26, 2021
PEDC 8-2021, August 11, 2021
PDS 34-2021, August 11, 2021

LOCAL AREA MUNICIPALITIES

SENT ELECTRONICALLY

Regional Response – Proposed Land Use Compatibility Guideline

PDS 34-2021

Regional Council, at its meeting held on August 26, 2021, passed the following recommendation of its Planning & Economic Development Committee:

That Report PDS 34-2021, dated August 11, 2021, respecting Regional Response - Proposed Land Use Compatibility Guideline, **BE RECEIVED** and the following recommendations **BE APPROVED**:

1. That Report PDS 34-2021 **BE RECEIVED** for information;
2. That staff **BE DIRECTED** to continue to provide detailed comments on the Ministry of the Environment, Conservation and Parks' proposed Land Use Compatibility Guideline (ERO #019-2785), and any associated matters, as warranted; and
3. That Report PDS 34-2021 **BE CIRCULATED** to local area municipal Planning Directors.

A copy of PDS 34-2021 is enclosed for your reference.

Yours truly,

A handwritten signature in black ink, appearing to read "Ann-Marie Norio".

Ann-Marie Norio

Regional Clerk

:cv

CC:

M. Sergi, Commissioner, Planning and Development Services

N. Oakes, Executive Assistant to the Commissioner, Planning and
Development Services

A. Alderman, Senior Development Planner, Planning and Development
Services

Subject: Regional Response – Proposed Land Use Compatibility Guideline

Report to: Planning and Economic Development Committee

Report date: Wednesday, August 11, 2021

Recommendations

1. That Report PDS 34-2021 **BE RECEIVED** for information;
2. That staff **BE DIRECTED** to continue to provide detailed comments on the Ministry of the Environment, Conservation and Parks' proposed Land Use Compatibility Guideline (ERO #019-2785), and any associated matters, as warranted; and
3. That Report PDS 34-2021 **BE CIRCULATED** to local area municipal Planning Directors.

Key Facts

- This report provides an overview of the proposed Land Use Compatibility Guideline (“Guideline”).
- On May 4, 2021, the Ministry of the Environment, Conservation and Parks (“MECP”) released the draft Land Use Compatibility Guideline and set July 3, 2021 as the consultation deadline.
- On July 2, 2021, the MECP extended the consultation deadline until August 6, 2021.
- Staff prepared comments on the proposed Land Use Compatibility Guideline for submission to the Environmental Registry of Ontario (“ERO”). A copy is attached as Appendix 1.

Financial Considerations

There are no financial considerations directly linked to this report.

The proposed Land Use Compatibility Guideline may have a financial impact on the proponents of development within the Region. The proposed Minimum Separation Distances and Areas of Influence may result in an increase in the quantity of compatibility studies, and demonstration of need, required to support *Planning Act* applications.

Analysis

The Province's Proposed Land Use Compatibility Guideline

The proposed Land Use Compatibility Guideline is intended to replace components of the existing MECP D-Series Guidelines (Environmental Land Use Planning Guides), which were first introduced in the 1990s.

The Province developed the Land Use Compatibility Guideline to assist land use planning authorities and proponents of development in planning for land use compatibility that protects the long-term viability of major facilities while avoiding, or if avoidance is not possible, minimizing and mitigating adverse effects to the surrounding community.

The Guideline is to be applied to achieve and maintain land use compatibility between major facilities and sensitive land uses when a planning approval under the *Planning Act* is needed in the following circumstances:

- A new or expanding sensitive land use is proposed near an existing or planned major facility; or
- A new or expanding major facility is proposed near an existing or planned sensitive land use.

The proposed Land Use Compatibility Guideline will be implemented through PPS Policy 1.2.6.1, which states, "*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...in accordance with provincial guidelines, standards and procedures.*" The PPS has also aimed to protect and preserve employment areas for current and future uses, and provide long-term operational economic viability of the uses and functions of these areas. The current policies are found in Section 1.3.2 of the 2020 PPS, and note that "*employment areas planned for industrial and manufacturing uses shall provide for separation or mitigation from sensitive land uses.*"

The proposed Land Use Compatibility Guideline is to be applied when an approval under the *Planning Act* is needed. The Guideline applies in situations where the land

use is not changing, but the nature and/or intensity of the land use is, and an application under the *Planning Act* is required (e.g., difference in building height). It is also applicable in situations where there is a new use proposed for an existing building and an application under the *Planning Act* is required (e.g., residential use proposed in previous commercial building).

Through the Municipal Comprehensive Review (“MCR”) Niagara Official Plan Review, Regional staff will be updating the current Regional Official Plan to be consistent with and conform to the 2020 PPS and A Place to Grow: Growth Plan for the Greater Golden Horseshoe (the “Growth Plan”; 2019) with regard to land use compatibility. The Region will look to the MECP guidance for ways to address land use compatibility and leverage the available tools under the *Planning Act* when refining Regional policies.

Key Changes

The proposed Land Use Compatibility Guideline provides a policy basis approach to land use compatibility, which is represented by a decision-making hierarchy to avoid, or if avoidance is not possible, minimize and mitigate any potential adverse effects between incompatible uses. The following discussion presents some of the key changes proposed in the Land Use Compatibility Guideline.

Specified Major Facilities, Classes of Major Facilities & Characteristics

The proposed Land Use Compatibility Guideline assigns specific Area of Influences (AOIs) and Minimum Separation Distances (MSDs) to certain types of major facilities. The facility-specific AOIs and MSDs provide for more clarity in the planning process and consistent implementation across planning authorities.

The AOI is the area surrounding the property boundary of an existing or planned major facility where adverse effects on surrounding sensitive land uses have a moderate likelihood of occurring. Within AOIs, compatibility studies are required for proponents of proposed major facilities or proposed sensitive land uses as part of the supporting documentation for a planning application.

The MSD is a recommended minimum distance from a major facility within which adverse effects to a sensitive land use are highly likely to occur. Planning authorities should not allow sensitive land uses within the MSD. Where a sensitive land use is proposed within the MSD, a demonstration of need is required.

Introduction of Five (5) Industrial Class Facilities

The Guideline introduces five (5) industrial facility classifications, in comparison to the existing three (3) industrial facility classifications in the current D-Series Guidelines. Descriptions of major facilities at each class are provided below:

- Class 1: Operations with known smaller adverse effects.
- Class 2: Operations with moderate adverse effects. May include some outdoor operations.
- Class 3: Operations with moderate to significant adverse effects that may be difficult to mitigate. May include larger outdoor operations.
- Class 4: Operations with significant adverse effects that may be difficult to mitigate. May include larger outdoor operations.
- Class 5: Operations with the most significant adverse effects that may be difficult to mitigate. May include larger outdoor operations.

Additional characteristics to classify major facilities are provided in Table 3 of the proposed Guideline. It is noted that Table 3 does not provide specific characteristics for all five classifications, and represents a scaled approach to classify major facilities.

Increased Area of Influence and Minimum Separation Distance

The proposed Guideline presents increased distances for the AOI and MSD for each industrial facility classification. The AOI and MSD is typically measured as the actual distance between the property line of a sensitive land use and the property line of a major facility. The planning authority may allow measurement of the AOI or MSD from the major facility's building or equipment that is the actual source of adverse effects, as opposed to the property line. This method does not take into account any future expansions or future outdoor works, and should only be applied if the planning authority and major facility are agreeable and if future expansions to the major facility are not expected.

The below table (Table 1) demonstrates the increased distances for MSD and AOI, and compares the existing distances in the D-6 Guideline (Compatibility between Industrial Facilities) and the proposed Land Use Compatibility Guideline. As provided in the Land Use Compatibility Guideline, sensitive land uses should not be located within the MSD.

Table 1 – Current and Proposed Minimum Separation Distances

Major Facility Classification	Current Minimum Separation Distance (D-6 Guideline)	Proposed Minimum Separation Distance (Land Use Compatibility Guideline)	Increase
Class 1	20 metres	200 metres	180 metres
Class 2	70 metres	300 metres	230 metres
Class 3	300 metres	500 metres	200 metres
Class 4	N/A	500 metres	N/A
Class 5	N/A	500 metres	N/A

Table 2 – Current and Proposed Areas of Influence

Major Facility Classification	Current Area of Influence (D-6 Guideline)	Proposed Area of Influence (Land Use Compatibility Guideline)	Increase
Class 1	70 metres	500 metres	430 metres
Class 2	300 metres	750 metres	450 metres
Class 3	1,000 metres	1,000 metres	0 metres
Class 4	N/A	1,500 metres	N/A
Class 5	N/A	2,000 metres	N/A

Land Use Compatibility Studies, Demonstration of Need

If a land use proposal would place a new or expanding sensitive land use within a major facility's AOI, or a new or expanding major facility would capture sensitive land uses

within its AOI, a compatibility study will be required. If a new or expanding sensitive land use is proposed within a major facility's MSD or a new or expanding major facility would result in sensitive land uses within its MSD, compatibility studies and mitigation measures to address potential adverse effects on sensitive land uses and potential impacts to major facilities will be required. A demonstration of need will also be required if the proposed land use is a sensitive land use within the MSD of an existing or planned major facility.

The requirement for a demonstration of need is a new requirement of the proposed Land Use Compatibility Guideline.

Implementation through Official Plan Provisions

The proposed Guideline contains direction for planning authorities to address land use compatibility through official plan policies and procedures, planning tools and proponent-driven planning applications. The Guideline notes that the Official Plan should be the first mechanism used to implement compatibility policies, and recommends the incorporation of AOIs and MSDs and their related policies. The Guideline also recommends that Official Plans make specific reference to provincial guidelines, standards and procedures for land use compatibility. It is recommended that Official Plans include compatibility studies as part of a complete application when development is proposed within an AOI; and specifically requiring a demonstration of need as part of a proposal for a sensitive land use when mitigation measures are required for the development within an AOI and when the development is proposed within the MSD. The Guideline notes that, in two-tier municipalities (upper-tier and lower-tier), both levels need to have policies supporting early consideration of land use compatibility. Official Plans should identify or designate areas with existing or planned major facilities and identify associated AOIs and MSDs for these facilities; this can be demonstrated on a land use schedule, possibly as an overlay.

Identified Implications and Concerns

Regional staff have noted a number of recommendations, and items of concern or implication to anticipated and proposed development, in response to the proposed Land Use Compatibility Guideline. While more information on these items is detailed in Appendix 1, a list of the items has been provided below.

1. **Change from a Guideline to Official Plan Policy Directive:** resulting in potential impacts to the Region's MCR submission, and inflexibility in mapping (to demonstrate the AOI and MSD) as recommended in the Guideline.

2. **Municipal Comprehensive Review Timeline:** the Guideline requires planning authorities to identify, evaluate and develop alternate AOIs as part of the MCR, which may impede the Region in meeting the Provincial conformity deadline.
3. **Industrial Classification Language:** the Guideline utilizes subjective language such as “moderate” and “significant” to classify major uses. These terms are open to interpretation, and staff has concerns with consistent application and opinion on major facility classifications.
4. **Classification and Characteristics of Major Facilities:** the Tables provided in the proposed Guideline does not provide for clear reading or understanding of the characteristics of major facilities. Recommended that the Province consider utilizing the North American Industry Classification System (NAICS) to support major facility classification.
5. **Significant Increase in the MSDs and AOIs:** the increases in AOI and MSD may impact a number of strategic growth areas in the Region, including Major Transit Station Areas and development undergoing the approval process.
6. **Demonstration of Need:** the Guideline introduces that a demonstration of need is required, generally, when sensitive land uses are proposed within the MSD of a major facility. The Guideline does not outline who is qualified to prepare an MSD or criteria to evaluate the assessment.
7. **Transition Clauses:** the Guideline does not include a transition or sunset clause that recognizes existing and planned sensitive land uses prior to the implementation date. Staff has concerns regarding the implementation of the Guideline, upon finalization by the Province, and the ways in which this may impact ongoing, long-term, development proposals.
8. **Distances Measured from Property Boundary:** the Guideline requires that distances for MSD and AOI are measured from the property line or the building envelope of the major facility, and has eliminated the ability to measure these distances from site-specific zoning. The Province is encouraged to re-consider permissions to measure setbacks from site-specific zones.
9. **Applicability to Agriculture-Related and On-Farm Diversified Uses:** the Guideline notes that its provisions do not apply to agricultural operations; Regional staff wish to clarify whether agricultural operations include agriculture-related and/or on-farm diversified uses, which may be industrial in nature.
10. **Application to Cannabis Production Facilities:** the Guideline classifies cannabis production facilities within the settlement area boundary (i.e. urban

area) as a Class 5 industrial use, with significant AOI and MSD. Given that the Guideline does not apply to agricultural operations, which can include cannabis production facilities, staff are concerned that this classification creates two sets of rules for the same use.

11. **Consultation with Industry:** the Guideline places significant importance on engagement from and with major facilities; staff are supportive of this direction and recommend that the Guideline clearly outline the benefits of early and continued engagement to both proponents of new or expanding sensitive land uses and new or expanding major facilities.
12. **Transitional Uses:** the Guideline recommends that commercial or office uses be applied as transitional uses between major facilities and sensitive land uses. Staff are concerned that the implementation of commercial or office spaces as transitional uses will impact the ability of the Region and local area municipalities to achieve complete communities.
13. **NPC-300 Class 4 Designation and Land Use Compatibility Guideline:** Regional staff are concerned that the proposed significant increase in the MSD and AOI will result in increased requests of the planning authority to consider the application of Class 4 designation, per NPC-300. Staff are of the opinion that the proposed Land Use Compatibility Guideline could benefit from additional clarification regarding NPC-300 and the proposed provisions, as it is anticipated that many proponents will request the implementation of a Class 4 designation.

Alternatives Reviewed

The purpose of this report is to provide a summary of the proposed Land Use Compatibility Guideline as well as provide the Staff comments that were submitted to the Province on July 2, 2021.

Relationship to Council Strategic Priorities

Businesses and Economic Growth

The proposed Land Use Compatibility Guideline will impact the way in which Niagara Region conducts its planning function, to promote and improve interactions with proponents of major facilities early on in the planning approvals process.

Healthy and Vibrant Community

The intent of the proposed Land Use Compatibility Guideline is to ensure suitable setbacks between major facilities and sensitive land uses to ensure that compatibility is achieved. With compatibility being achieved, planning in Niagara can continue to result in the development of healthy and vibrant communities.

Other Pertinent Reports

N/A

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Appendices

Appendix 1 Niagara Region's submission: Proposed Land Use Compatibility Guideline (ERO 019-2785)

Delivered electronically

Subject: Niagara Comments: Proposed Land Use Compatibility Guideline (ERO 019-2785)

Date: July 2, 2021

To: Sanjay Coelho

Senior Policy Analyst, Ministry of the Environment, Conservation and Parks – Environmental Policy Branch

From: Doug Giles

Acting Commissioner of Planning and Development Services, Niagara Region

Thank you for the opportunity to comment on the proposed Land Use Compatibility Guideline (the “Guideline”).

Please accept this submission in response to Environmental Registry of Ontario (ERO) posting #019-2785, on behalf of the Acting Commissioner of Planning and Development Services of the Regional Municipality of Niagara (the “Region”).

This submission contains three parts:

- 1) This cover letter highlighting the background of the proposed Land Use Compatibility Guideline, and the Region’s key areas of interest.
- 2) A table containing the Region’s policy-specific comments and recommendations.
- 3) Case study examples, which demonstrate the impacts in the Niagara Region of increasing the areas of influence and minimum separation distances in proposed employment areas.

Regional Comments

Niagara Region supports many of the proposed changes to address land use compatibility, as presented in the Guideline. For instance, the Region supports:

- The additional clarification provided regarding when the contents of the Guideline are to be applied in the planning approvals process.
- The introduction of graphics throughout to demonstrate process and application of the Guideline.

- In principle, the introduction and implementation of Table 1 (Area of influence and minimum separation distance for select major facilities), which will reduce ambiguity and subjectivity in the planning process.
- In principle, additional tools to assess land use compatibility and implement recommendations of necessary studies.

The Region has identified some instances where further clarification is required. As previously noted, we have provided the enclosed table with detailed comments in that regard. Following the Table of Contents is a summary of the background of the proposed Land Use Compatibility Guidelines and the Region's key concerns.

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Background

On May 4, 2021, the Ministry of the Environment, Conservation and Parks (the “MECP”) released the proposed Land Use Compatibility Guideline on the Environmental Registry of Ontario (“ERO”; [ERO No. 019-2785](#)). Since May 4, 2021, the Province held various information sessions to discuss the proposed Land Use Compatibility Guideline, including sessions Regional staff attended on June 2, 9 and 16, 2021. The MECP has provided a 60-day consultation period, with comments and feedback due on July 3, 2021.

The proposed Guideline is intended to replace components of the existing MECP D-Series Guidelines (Environmental Land Use Planning Guides), which were first introduced in the 1990s, as follows:

- D-1 Land Use and Compatibility
 - D-1-1 Land Use Compatibility: Procedure for Implementation
 - D-1-2 Land Use Compatibility: Specific Applications
 - D-1-3 Land Use Compatibility: Definitions
- D-2 Compatibility Between Sewage Treatment and Sensitive Land Use
- D-4 Land Use on or Near Landfills and Dumps
 - D-4-1 Assessing Methane Hazards from Landfill Sites
 - D-4-3 Registration or Certificates and Provisional Certificates
- D-6 Compatibility Between Industrial Facilities
 - D-6-1 Industrial Categorization Criteria
 - D-6-3 Separation Distances

In replacing the above sections of the existing D-Series Guidelines, the proposed Land Use Compatibility Guideline will consolidate all information and direction into one document. It is noted that the following D-Series Guidelines sections are not being replaced through the introduction of the proposed Land Use Compatibility Guideline:

- D-3 Environmental Considerations for Gas or Oil Pipelines and Facilities
- D-5 Planning for Sewage and Water Services and its subsections

The Province developed the Land Use Compatibility Guideline to assist land use planning authorities and proponents of development in planning for land use compatibility which protects the long-term viability of major facilities while avoiding, or if

avoidance is not possible, minimizing and mitigating adverse effects to the surrounding community.

The Land Use Compatibility Guideline is to be applied to achieve and maintain land use compatibility between major facilities and sensitive land uses when a planning approval under the *Planning Act* is needed in the following circumstances:

- A new or expanding sensitive land use is proposed near an existing or planned major facility; or
- A new or expanding major facility is proposed near an existing or planned sensitive land use.

The proposed Land Use Compatibility Guideline features the following key components:

- Direct allocation of responsibility to planning authorities (municipalities) to:
 - Ensure that sensitive uses and major facilities are planned to avoid or minimize adverse effects in accordance with Provincial Policy Statement (PPS) Policy 1.2.6.1 and 1.2.6.2;
 - Protect the long-term viability of existing and planned industrial and employment uses in accordance with PPS Policy 1.3.2.2, 1.3.2.3, 1.3.2.4, and 1.3.2.5.
- Detailed process for assessing land use compatibility through clear delineation of the area of influence (the “AOI”) and minimum separation distance (the “MSD”), measured between property lines.
- Guidance on mitigation strategies and the preparation of compatibility studies.

Since the introduction of the Provincial Policy Statement (the “PPS”) in 2005, the Province has directed that major facilities and sensitive land uses should be planned to prevent or mitigate adverse effects, minimize risk to public health and safety, and to ensure the long-term viability of major facilities. Section 1.2.6 (Land Use Compatibility) of the 2020 PPS specifically speaks to compatibility. The proposed Land Use Compatibility Guideline will be implemented through PPS Policy 1.2.6.1, which states, “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...in accordance with provincial guidelines, standards and procedures.” The PPS has also aimed to protect and preserve employment areas for current and future uses, and provide long-term operational economic viability of the uses and functions of these areas. The current policies are found in Section 1.3.2 of the 2020 PPS, and note that “employment areas planned for industrial and manufacturing uses shall provide for separation or mitigation from sensitive land uses.”

The 2020 PPS provide the following definitions:

“Adverse effects: as defined in the *Environmental Protection Act*, means 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 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 normal conduct of business.”

“Major facilities: means facilities which may require separation from *sensitive land uses*, including but not limited to airports, manufacturing uses, transportation infrastructure and corridors, *rail facilities*, *marine facilities*, sewage treatment facilities, *waste management systems*, oil and gas pipelines, industries, energy generation facilities and transmission systems, and resource extraction activities.”

The proposed Land Use Compatibility Guideline is to be applied when an approval under the *Planning Act* is needed, including: Official Plan and Official Plan Amendments; Secondary Plans; Community Planning Permit Systems; Plans of Subdivision and Condominium; Consents; Minor Variances; and Site Plan Control and other planning approvals. The Guideline applies in situations where the land use is not changing, but the nature and/or intensity of the land use is, and an application under the *Planning Act* is required (e.g., difference in building height). It is also applicable in situations where there is a new use proposed for an existing building and an application under the *Planning Act* is required (e.g., residential use proposed in previous commercial building).

Through the Municipal Comprehensive Review (MCR) Niagara Official Plan Review, Regional staff will be updating the current Regional Official Plan to be consistent with and conform to the 2020 PPS and A Place to Grow: Growth Plan for the Greater Golden Horseshoe (the “Growth Plan”; 2019) with regard to land use compatibility. The Region will look to the MECP guidance for ways to address land use compatibility and leverage the available tools under the *Planning Act* when refining Regional policies.

Discussion

Key Changes

The proposed Land Use Compatibility Guideline provides a policy basis approach to land use compatibility, which is represented by a decision-making hierarchy to avoid, or if avoidance is not possible, minimize and mitigate any potential adverse effects between incompatible uses. The following discussion presents some of the key changes proposed in the Land Use Compatibility Guideline.

1. Specified Major Facilities, Classes of Major Facilities & Characteristics

The proposed Land Use Compatibility Guideline assigns specific AOIs and MSDs to certain types of major facilities. These distances are found in Table 1 (Area of influence and minimum separation distance for select major facilities) of the Guideline. Where available, the facility-specific AOIs and MSDs found in Table 1 should be used. Where other types of major facilities (those not listed in Table 1) are being considered, Table 2 (Area of influence and minimum separation distance for classes of major facilities) and Table 3 (Characteristics for classifying major facilities) should be reviewed to best classify the use and determine the appropriate class-related AOI and MSD.

The inclusion of these three tables (Tables 1, 2, 3) will replace the existing D-6-1 Industrial Categorization Criteria. The existing D-6-1 table provides criteria to classify industrial uses into one of three (3) existing classifications; it provides possible examples of industries that may qualify as a specific classification but does not provide strict requirements for a certain major facility (as is proposed in Table 1).

2. Introduction of Five (5) Industrial Class Facilities

The Land Use Compatibility Guideline introduces five (5) industrial facility classifications, in comparison to the existing three (3) industrial facility classifications in the current D-Series Guidelines. Per Table 2 of the proposed Guideline, descriptions of major facilities at each class are provided below:

- Class 1: Operations with known smaller adverse effects.
- Class 2: Operations with moderate adverse effects. May include some outdoor operations.
- Class 3: Operations with moderate to significant adverse effects that may be difficult to mitigate. May include larger outdoor operations.
- Class 4: Operations with significant adverse effects that may be difficult to mitigate. May include larger outdoor operations.
- Class 5: Operations with the most significant adverse effects that may be difficult to mitigate. May include larger outdoor operations.

Additional characteristics to classify major facilities are provided in Table 3 of the proposed Land Use Compatibility Guideline. It is noted that Table 3 does not provide specific characteristics for all five classifications, and represents a scaled approach to classify major facilities.

3. Increased Area of Influence (AOI) and Minimum Separation Distance (MSD)

The proposed Land Use Compatibility Guideline presents increased distances for the AOI and MSD for each industrial facility classification. The Guideline defines the AOI as the distance within which adverse effects on surrounding sensitive land uses have a moderate likelihood of occurring; MSD is defined as the distance within which adverse effects on surrounding sensitive land uses are very likely to occur. The AOI and MSD is typically measured as the actual distance between the property line of a sensitive land use and the property line of a major facility. The planning authority may allow measurement of the AOI or MSD from the major facility’s building or equipment that is the actual source of adverse effects, as opposed to the property line. This method does not take into account any future expansions or future outdoor works, and should only be applied if the planning authority and major facility are agreeable and if future expansions to the major facility are not expected.

The below table (Table 1) demonstrates the increased distances for MSD and AOI, and compares the existing distances in the D-6 Guideline (Compatibility between Industrial Facilities) and the proposed Land Use Compatibility Guideline. As provided in the Land Use Compatibility Guideline, sensitive land uses should not be located within the MSD.

Table 1 – Current and Proposed Separation Distances

Current Minimum Separation Distance (D-6 Guideline)		Proposed Minimum Separation Distance (Land Use Compatibility Guideline)		Increase
Classification	Distance	Classification	Distance	
Class 1	20 m	Class 1	200 m	180 m
Class 2	70 m	Class 2	300 m	230 m
Class 3	300 m	Class 3	500 m	200 m
		Class 4	500 m	N/A
		Class 5	500 m	N/A

Current Potential Influence Areas (D-6 Guideline)		Proposed Area of Influence (Land Use Compatibility Guideline)		Increase
Classification	Distance	Classification	Distance	
Class 1	70 m	Class 1	500 m	430 m
Class 2	300 m	Class 2	750 m	450 m
Class 3	1,000 m	Class 3	1,000 m	0 m
		Class 4	1,500 m	N/A
		Class 5	2,000 m	N/A

4. Land Use Compatibility Studies, Demonstration of Need

Section 2.9 Decision Tree for Land Use Compatibility (Figure 5 – Decision tree for land use compatibility) outlines the requirement for studies to support proposed sensitive land uses and major facilities that may fall within an AOI or MSD. If a land use proposal would place a new or expanding sensitive land use within a major facility’s AOI, or a new or expanding major facility would capture sensitive land uses within its AOI, a compatibility study will be required. If a new or expanding sensitive land use is proposed within a major facility’s MSD or a new or expanding major facility would result in sensitive land uses within its MSD, compatibility studies and mitigation measures to address potential adverse effects on sensitive land uses and potential impacts to major facilities will be required. A demonstration of need will also be required if the proposed land use is a sensitive land use within the MSD of an existing or planned major facility.

Section 2.7 (General Documentation in Compatibility Studies) of the proposed Land Use Compatibility Guideline outlines the general information that should be provided as part of required compatibility studies. This general information should be provided in addition to the requirements listed in Appendix B (Compatibility Studies Addressing Noise, Dust and Odour). Information required in a Demonstration of Need is provided in Section 2.8 (Demonstration of Need) of the proposed Guideline.

5. Implementation through Official Plan Provisions

The proposed Land Use Compatibility Guideline contains direction for planning authorities to address land use compatibility through official plan policies and procedures, planning tools and proponent-driven planning applications. The Guideline notes that the Official Plan should be the first mechanism used to implement

compatibility policies, and recommends the incorporation of AOIs and MSDs and their related policies. The Guideline also recommends that Official Plans make specific reference to provincial guidelines, standards and procedures for land use compatibility. It is recommended that Official Plans include compatibility studies as part of a complete application when development is proposed within an AOI; and specifically requiring a demonstration of need as part of a proposal for a sensitive land use when mitigation measures are required for the development within an AOI and when the development is proposed within the MSD. The Guideline notes that, in two-tier municipalities (upper-tier and lower-tier), both levels need to have policies supporting early consideration of land use compatibility. Official Plans should identify or designate areas with existing or planned major facilities and identify associated AOIs and MSDs for these facilities; this can be demonstrated on a land use schedule, possibly as an overlay.

Implications and Concerns

In reviewing the proposed Land Use Compatibility Guideline, Regional staff have noted a number of recommendations, and items of concern or implication to anticipated and proposed development. Staff have organized these comments into the below major themes. Regional staff included comments of a more technical nature in Appendix A, for Ministry consideration.

1. Change from a Guideline to Official Plan Policy Directive

The proposed Land Use Compatibility Guideline contains new direction for planning authorities to address land use compatibility through Official Plan policies. The Guidelines recommend that Official Plans make reference to provincial guidelines, standards and procedures for land use compatibility. Specifically, the Guidelines outline that Official Plans should identify or designate areas with existing or planned major facilities and identify associated AOIs and MSDs for these facilities; this can be demonstrated on a land use schedule, possibly as an overlay. This change in direction, to implement the guidelines through Official Plan policies, will significantly impact the Region's, and local area municipality's, ability to protect its employment areas while meeting Provincial intensification and density targets. Depending on the methods in which the Region implements the Guideline directives in the Official Plan, there is a possibility that any revisions will significantly impact the timing of the Region's Official Plan Review and employment area policies.

An additional challenge with this approach will be the ability for municipalities to ensure accurate mapping that reflects current uses and the potential expansion of these uses. Updating this mapping to reflect on-ground uses will prove challenging, as employment growth and investment can be volatile and result in the need to adjust AOIs and MSDs based on evolving employment uses. For example, AOI and MSD would need to be reduced in an instance where an employment parcel that has historically occupied a Class I facility experiences the facilities departure of that facility and is replaced by a

Class II facility. Constantly updating official plan mapping to reflect these changes would result in increased burden to staff resourcing, as well as added red-tape and uncertainty to nearby development applications captured within these mapped areas.

The simplest and least burdensome means for municipalities to implement AOI and MSD mapping into official plans would be to assume a worst-case scenario for all designated employment lands and employment areas based on existing uses and permitted zoning. Staff has provided an example of this scenario in Map 3 (Proposed Land Use Compatibility Guideline Distances Applicable to Niagara's Draft Employment Areas), found in Appendix B. It is important to note; however, that this approach would result in its own implementation challenges – particularly with respect to potential development application study requirements and justification.

2. Municipal Comprehensive Review Timeline

The proposed Land Use Compatibility Guideline will impact and possibly delay the Niagara Region's submission of the Municipal Comprehensive Review (the "MCR"), to be completed by July 2022. The proposed Guideline requires Planning Authorities to identify, evaluate, and develop alternate AOI as part of the MCR (reviews of Official Plans, Secondary Plans and/or Zoning By-laws), which may impede the Region in meeting the Provincial conformity deadline. Further, with respect to employment areas, the Niagara Region is in the late stages of identifying its draft employment areas as part of its ongoing MCR. The Region worked closely with local municipalities and industry stakeholders to identify draft employment areas, which were considered based on the existing D-Series Guidelines. The new Guideline introduces increased MSD and AOI, which will significantly impact the draft employment areas and the associated MCR work completed to-date. It will be challenging to adjust the Regional MCR workplan and fully understand the implications of the Land Use Compatibility Guideline recommendations until such time as a final Guideline is released.

3. Industrial Classification Language

To assist planning authorities in classifying major facilities that do not have identified AOI or MSD in Table 1 of the Guideline (Area of influence and minimum separation distance for select major facilities), the Guideline provides Table 2 (Area of influence and minimum separation distance for classes of major facilities). Regional staff has concerns with the language used in the descriptions of each class of major facility:

- Class 1: Operations with known smaller adverse effects.
- Class 2: Operations with moderate adverse effects.
- Class 3: Operations with moderate to significant adverse effects that may be difficult to mitigate.

- Class 4: Operations with significant adverse effects that may be difficult to mitigate.
- Class 5: Operations with the most significant adverse effects that may be difficult to mitigate.

The inclusion of terms such as “moderate” and “significant” are considered strongly subjective in nature. These terms are open to interpretation, which may result in a major facility being considered of higher or lower class in a neighbouring local area municipality (lower-tier municipality). Regional staff are concerned with consistent application and opinion on these classifications, and the ability of the subjective terms to significantly impact development.

Regional staff recommends that the Province consider how seasonal uses may align with Table 3 of the Guideline (Characteristics for classifying major facilities). For instance, if a use has characteristics that align with the “red” section of Table 3 for the summer months (June to September), but its operations for the remainder of the year align with the “green” to “yellow” section of Table 3, how would the planning authority most appropriately classify the facility?

4. Classification & Characteristics of Major Facilities

The proposed Land Use Compatibility Guideline provides AOIs and MSDs for specific major facilities, and Section 2.3 provides guidance on how to classify a major facility with no facility-specific AOI and MSD. To classify a major facility with no facility-specific AOI and MSD, the Guideline directs the reader to first review Table 2 (Areas of influence and minimum separation distance for classes of major facilities), which identifies AOIs and MSDs for all five classes, provides a description of the major facility and examples of said facilities. The Guideline then directs the reader to review Table 3 (Characteristics for classifying major facilities) to identify the adverse effects commonly associated with the type of proposed or existing major facility. Given that Table 3 (excerpt provided below) does not delineate between each class, it is unclear how this table is implemented and analyzed to determine the class of the major facility and its associated AOI and MSD. It is recommended that the Province refine Table 3 to better classify the characteristics of major facilities to assist the planning authority in implementing the most accurate classification. The Guideline could also benefit from more clarification as to when a use could be considered Class 2 or Class 4 based on the below Table 3.

Image 1 – Table 3 Excerpt (Characteristics for classifying major facilities)

Table 3 – Characteristics for classifying major facilities.

	CLASS 1 → CLASS 2 → CLASS 3 → CLASS 4 → CLASS 5		
IMPACTS			
Noise	Sound is not audible off property	Sound occasionally audible off property	Sound frequently audible off property
Vibration	No ground borne vibration on plant property	Possible ground-borne vibration, but cannot be perceived off property	Ground-borne vibration can frequently be perceived off property
Dust (Point Source)	Infrequent and not intense	Frequent and occasionally intense	Persistent and/or intense

The Province may wish to consider utilizing the North American Industry Classification System (NAICS) to support the determination of which classification a major facility is considered. The Guideline could be improved by specifying all level 1 (two-digit codes) of the NAICS sectors that apply to each major facility class. For NAICS sectors that apply within multiple classes, the NAICS sector could be further defined to include additional NAICS level three- and four-digit codes (level 2 subsectors and level 3 industry groups, respectively) to clarify the distinction between the industrial facilities within each class. Utilizing this method could support future planning efforts by considering how an industries class may change, should it have future plans to expand or transition its operations.

5. Significant Increase in the Minimum Separation Distances and Areas of Influence

The proposed Land Use Compatibility Guideline increases the number of classes for major facilities from three (3) classes (under the current D-6 Guidelines) to five (5) classes. The Guideline also increases the minimum separation distance (MSD) and area of influence (AOI) associated with the classes for major facilities. As a result of the proposed increases, many strategic growth areas in the Niagara Region, including Major Transit Station Areas, will be captured within the MSD and AOI of major facilities. Staff has provided case study examples of these implications in Appendix B.

Staff also has concerns regarding how the proposed Guideline will impact existing development proposals that are undergoing the approval process. This could include developments for which the land use permissions have been granted (through an amendment to an Official Plan and/or Zoning By-law) but require additional technical

approvals (including draft plan and/or site plan approval) once the Guideline comes into effect. Staff question how the increases to AOI and MSD will impact developments that have yet to proceed through the approval process but have land use compatibility assessments underway. Does a compatibility study completed under the existing D-Series guidelines override the recommended AOI and MSD of the proposed Land Use Compatibility Guideline?

It is recommended that the Province consider the case studies and additional analysis provided in Appendix B, and the circumstances noted above in revising the proposed Land Use Compatibility Guideline to better understand the implications of these increased distances on planning practice.

6. Demonstration of Need

The proposed Land Use Compatibility Guideline introduces a new assessment, the demonstration of need, which will accompany compatibility studies. A demonstration of need is an assessment that determines whether there is an identified need for the proposed use in the proposed location, and evaluates alternative locations if avoidance is not possible. A demonstration of need assessment is required for proponents of sensitive land uses and Section 2.8 of the Guideline outlines the instances when the additional assessment is required, including proposed development within the MSD. The Guideline does not outline who is qualified to prepare a demonstration of need assessment; however, the Guideline notes that a demonstration of need may be included as part of a planning justification report, which suggests that a Registered Professional Planner is a qualified author. It is recommended that the Province develop criteria to evaluate demonstrations of need, to assist the planning authority in determining the appropriateness of a completed assessment. Regional staff also recommend that the Province clarify what “avoidance” the demonstration of need is aiming to achieve.

7. Transition Clauses

The proposed Land Use Compatibility Guideline does not include a transition or sunset clause that recognizes existing and planned sensitive land uses prior to the implementation date of the new Guideline. Regional staff anticipate several challenges associated with the implementation of the Guideline without a transition period or transition clause. In particular, issues may arise with sensitive land uses that were previously approved within a given distance from an employment area or employment lands, which under the new Guideline, are captured within the increased MSD. Staff are particularly concerned with applications where a property was deemed appropriate for a proposed use (i.e. through an Official Plan and/or Zoning By-law Amendment) but requires additional technical Planning Act approvals (i.e. draft plan and/or site plan approval). As indicated in the consultation session organized by the Ministry of the Environment, Conservation and Parks staff on June 9, 2021, the Ministry intends to

reconsider the inclusion of transition clauses. Regional staff strongly encourages the Ministry to consider the inclusion of transition clauses, and would be supportive of the Guideline including such wording. In the absence of transitional wording being provided in the Guideline, Regional staff would work with local area municipalities to determine transition approaches, as applicable. Staff notes that this approach could vary by municipality, resulting in an inconsistent application of the Land Use Compatibility Guideline; accordingly, it is strongly recommended that the Province incorporate transitional clauses into the Guideline.

8. Distances Measured from Property Boundary

The proposed Land Use Compatibility Guideline recommends that both AOI and MSD be measured from the property line of a major facility and the property line of a sensitive land use. The Guideline also outlines that there may be instances where there is a buffer on a property and, in specific circumstances, the planning authority may allow the measurement of the separation distance from the source the adverse effect (building or equipment) as opposed to the property line. The Guidelines do not generally recommend this alternative measurement approach as it does not consider future facility expansions. The existing D-Series Guidelines permit AOIs and MSDs to be measured from a site-specific zone. Eliminating the possibility of planning authorities to measure these distances from site-specific zones will result in larger setbacks from major facilities and/or sensitive land uses. The proposed alternative to measuring setbacks from the property line requires significant engagement with existing major industries, which may not always be practical or feasible. Regional staff encourage the Province to re-consider permissions to measure setbacks from site-specific zones.

9. Applicability to Agriculture-Related and On-Farm Diversified Uses

The proposed Land Use Compatibility Guideline does not apply to agricultural operations to which the OMAFRA Minimum Separation Distance guidelines apply. Agricultural uses are not considered major facilities in the PPS and as such are not specifically referenced under this Guideline. According to the Guideline, it is expected that development and proposals outside of settlement areas will be able to achieve the required separation (AOI/MSD).

Given that agriculture-related (including agriculture-related commercial and industrial operations) and on-farm diversified uses are permitted outside of settlement areas, it is unclear as to whether “agricultural operations” include agriculture-related and on-farm diversified uses. Additional guidance should be provided to clarify whether agriculture-related and on-farm diversified uses are exempt from the criteria outlined in the proposed Land Use Compatibility Guideline.

10. Application to Cannabis Production Facilities

The proposed Land Use Compatibility Guideline provides different guidance for cannabis production facilities depending upon the location of the use. In settlement areas and employment areas, the Guideline recognizes a cannabis production facility as a major facility and classifies the use as a Class 5 Industry. In contrast, when a cannabis production facility is located within or proposed within the prime agricultural area or rural area, the Guideline defers to the OMAFRA Guidelines on Permitted Uses in Ontario's Prime Agricultural Areas. Regional staff are concerned that the proposed Guideline results in the creation of two sets of rules that apply for cannabis production facilities. Regional staff recommend that the Province reconsider this approach as land use compatibility concerns are the same for nearby sensitive land uses regardless of whether the cannabis production facility is located in a settlement area, prime agricultural area, or rural area. Further, Regional staff are concerned that the Guideline will encourage cannabis production facilities to locate within prime agricultural areas and rural areas. As proposed, the Guideline classifies cannabis production facilities as a Class 5 Industry within settlement areas and employment areas; therefore, a proposed cannabis production facility could strategically locate within a prime agricultural area or rural area to avoid the more onerous Class 5 guidelines despite producing the same impacts on adjacent sensitive land uses.

11. Consultation with Industry

The proposed Land Use Compatibility Guideline places significant importance on engagement from and with major facilities. Appendix C of the Guideline (Consultation and Engagement for Land Use Compatibility) provides engagement strategies, timing and best practices. The Guideline "highly encourages" early engagement in accordance with Appendix C (refer to Section 1.6.2). Regional staff are supportive of, and encourage, early engagement in the planning approvals process. Staff note that there are often barriers to engaging with existing industry; if existing industry is not sufficiently engaged in the planning approval process, this could result in future compatibility concerns. The Guideline should clearly outline the benefits to both proponents of new or expanding sensitive land uses and new or expanding major facilities, to ease the implementation of early engagement strategies.

12. Transitional Uses

The proposed Land Use Compatibility Guideline outlines that transitional uses will be used to buffer impacts between major facilities and potentially incompatible uses. The Guideline recommends that if commercial or office uses are proposed as transitional land uses, a qualified individual should be hired to review its suitability; however, the Guideline does not include specific criteria for determining whether a particular use is an appropriate transitional use. Further, the Guidelines do not specify whether an existing use, which provides a buffer between a major facility and surrounding sensitive land

uses, can be considered a transitional use. Staff notes that the D-6 Guidelines currently permits for transitional uses subject to a feasibility analysis.

Regional staff are concerned that the implementation of the proposed Guideline will limit the types of transitional uses permitted in 'transition areas', such as employment areas, and thereby impacting the Provincial priority of creating complete communities. As previously mentioned, a large portion of Niagara Region's strategic growth areas and major transit station areas (the "MTSAs") are captured within the buffers associated with the increased AOIs and MSDs. As a result, the guidelines for transitional uses could restrict the types of uses otherwise envisioned and planned for in employment areas and the surrounding area.

In previous instances where Class 1 facilities were implemented as transitional uses, due to their 20 metre minimum separation distance, the proposed Guideline permits for only commercial or office-related type uses to transition from a major facility to a sensitive land use. It is recommended that the Province consider the implications of this direction on the ability for municipalities to encourage and achieve complete communities, in alignment with the direction provided in the PPS and Growth Plan. If commercial and office-related type uses are the only uses that could feasibly transition a major facility to a sensitive land use, staff have concerns with the potential relation of these uses outside of downtown cores. It is recommended that the Province consider ways to re-introduce additional uses as transitional uses between major facilities and sensitive land uses.

As proposed, the Land Use Compatibility does not appear to support the Provincial priorities of creating complete communities in close proximity to strategic growth areas. The significant proposed increase in MSD and AOI results in a large portion of MTSA and other strategic growth areas that are planned to accommodate Niagara's future growth becoming captured within these buffers. Regional staff recommend that the Guideline clearly articulate whether MTSAs are subject to the policies and recommended distances. The proposed Guideline must clarify how these various competing Provincial interests are balanced and prioritized, especially during instances where strategic growth areas are impacted by MSD and AOI from employment areas.

13. NPC-300 Class 4 Designation and Land Use Compatibility Guideline

The proposed Land Use Compatibility Guideline provides a note on Class 4 Designations under NPC-300 (Environmental Noise Guideline – Stationary and Transportation Sources – Approval and Planning), stating that "Class 4 areas [per NPC-300] are defined as an area of specific site that would otherwise be defined as Class 1 or 2 and which is intended for development with new noise sensitive land use(s) that are not yet built; 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 through the land use planning process." The

Guideline further states that “Class 4 designation is intended for areas where a mix of incompatible uses may be unavoidable or very difficult to avoid, such as areas that are built-out or designated as MTSAs in the Growth Plan.”

Staff has concerns that, due to the significant increases in MSD and AOI, planning authorities will receive significant pressure from proponents to apply Class 4 designations to sites. Regional staff also recommends that the Province provide additional clarification on the ways in which the Land Use Compatibility Guideline and NPC-300 work together, or separately. Clarification should be provided regarding whether the AOI and MSD can be reduced if a Class 4 designation for Noise is permitted by the planning authority; if the AOI and MSD can be reduced, how do planning authorities address facilities that have more characteristics than noise (i.e. if a sensitive land use can be considered under a Class 4 designation for noise, but a nearby facility has dust and odour impacts, how will NPC-300 and the Land Use Compatibility Guideline align with one another to determine the applicable AOI and MSD)? In the event that a parcel is approved for Class 4 designation under NPC-300, is a proponent still required to complete a demonstration of need and a land use compatibility study if their property is within the AOI and MSD from a major facility, or is the parcel only subjected to a noise impact assessment as provided in the Guideline?

Regional staff are of the opinion that the proposed Land Use Compatibility Guideline could benefit from additional clarification regarding NPC-300 and the proposed provisions, as it is anticipated that many proponents will request the implementation of a Class 4 designation.

Summary

Based on the above-noted discussion, Regional staff are supportive of the Province revising the approach to land use compatibility to support the Provincial Policy Statement; staff encourage the Province to review and consider the recommendations provided in this submission when revising the proposed Land Use Compatibility Guideline. Regional staff acknowledge that the final Land Use Compatibility Guideline may be different than the proposed draft; the final Guideline may eliminate or reduce some of the items of concern or implication provided above.

Additional comments on the proposed Land Use Compatibility Guideline are provided in the enclosed table.

The Region appreciates the opportunity to provide these comments. Please contact myself if you have any questions or require additional information.

Respectfully submitted and signed by



for

Doug Giles

Acting Commissioner of Planning and Development Services

Niagara Region

Attachments:

- Appendix A – Consolidated Niagara Region Comments. Response to proposed Land Use Compatibility Guideline (ERO #019-2785)
- Appendix B – Case Study Application of the proposed Land Use Compatibility Guideline (ERO #019-2785)

Appendix A – Consolidated Niagara Region Comments

Response to proposed Land Use Compatibility Guideline (ERO #019-2785).

Land Use Compatibility Guideline

Niagara Region Review Comments

<https://ero.ontario.ca/notice/019-2785>

PART A:	Overview and Policy Context	
1	Introduction and Context	
1.1	Overview	
	<p>This Land Use Compatibility Guideline (Guideline) has been developed to assist land use planning authorities and proponents of development in planning for land use compatibility which protects the long-term viability of major facilities while avoiding, or if avoidance is not possible, minimizing and mitigating adverse effects to the surrounding community.</p> <p>The primary purpose of the Guideline is to support the implementation of the Provincial Policy Statement, 2020 (PPS) issued under Section 3 of the Planning Act, including policies 1.2.6.1, 1.2.6.2, 1.3.2.2 and 1.3.2.3 related to land use compatibility. It also supports land use compatibility-related policies in provincial plans, including those in A Place to Grow: A Growth Plan for the Greater Golden Horseshoe (A Place to Grow).</p> <p>The Guideline acts in concert with provincial noise, dust and odour guidelines, standards and procedures, and refers to these technical guidelines for further direction on undertaking compatibility studies, assessments and modelling. The Guideline provides context on how land use compatibility is achieved through Ontario's land use planning process and the Environmental Protection Act (EPA) and regulations. It should also be used to inform Environmental Assessment (EA) processes carried out under the Environmental Assessment Act (EAA) and for compliance considerations.</p>	<p>Consider listing the guidelines that currently apply related to noise, dust and odour. While this could be problematic in the future, assuming that name/regulation changes will occur, the guideline titles could be listed as examples and refer to their predecessors.</p> <p>I.e., Noise = NPC-300, Air = O.Reg. 419/05, Guideline A-12, AERMOD, etc.</p>
	<p>The Guideline is to be applied to achieve and maintain land use compatibility between major facilities and sensitive land uses when a planning approval under the Planning Act is needed in the following circumstances:</p> <ul style="list-style-type: none"> • a new or expanding sensitive land use is proposed near an existing or planned major facility; or • a new or expanding major facility is proposed near an existing or planned sensitive land use. <p>The Guideline will also be applied when municipalities are incorporating land use compatibility policies and principles into various land use planning tools under the Planning Act and other legislation.</p>	<p>The term "expanding" may have prior definition, but does "expanding" mean addition of land or change in zoning? Or is this a building ("facility") expansion or new building on lands that might otherwise already be permissive of the in-effect zoning on a particular site? (As-of-right on site expansion). In other words, does this imply expansion on an existing industrial site would be subject to new limitation if a sensitive land use was being proposed outside of the industrial site itself?</p>

Land Use Compatibility Guideline		Niagara Region Review Comments
	<p>The objectives of land use compatibility planning are to:</p> <ul style="list-style-type: none"> • protect employment areas designated for future major facilities from incompatible uses and encroachment by sensitive land uses; • protect existing or planned major facilities from potential impacts from new sensitive land uses; and • prevent adverse effects to existing or planned sensitive land uses from new and/or expanding major facilities. <p>Part A of the Guideline outlines the general approach and guiding hierarchy, key concepts, use of the guideline, roles and responsibilities and policy context for the Guideline.</p> <p>Part B details the approach for assessing land use compatibility to inform land use planning decisions regarding land use compatibility matters. This Part includes areas of influence (AOIs) and minimum separation distances (MSDs) for specific types of facilities and various classes of facilities. It also provides a description of the expected contents of a compatibility study, including guidance and links supporting technical assessments of noise, dust, odour and other emissions, and of a demonstration of need. Mitigation measures that can be used to mitigate land use compatibility issues and impacts are also described.</p> <p>Part C provides direction on incorporating land use compatibility policies and tools into various tools under the Planning Act and other legislation. Additional considerations for transitional land uses and infill and intensification scenarios are also provided.</p> <p>The Appendices provide additional detail on relevant policies, completing assessments supporting compatibility studies, specific sectors, and planning for land use compatibility for landfills and dumps. They also include a glossary, abbreviations, case studies and helpful references.</p>	<p>As stated, of the three bullets, I interpret the preference / hierarchy is given to employment over community. This should be the preference. This is reinforced through the Growth Plan by permitting “future” employment areas being identified (but not designated) for protection beyond 2051. This permission is not identified for “future” community area.</p> <p>Bullet two (from new sensitive land uses) should be revised to include “expanding” sensitive land uses. If a sensitive land use is expanding to encroach closer to an industrial use, this needs to be evaluated.</p>
1.2	General Approach to Planning for Land Use Compatibility	
	<p>Land use compatibility is achieved when major facilities and sensitive land uses can co- exist and thrive for the long-term within a community through planning that recognizes the locational needs of both. These different land uses need to be planned and managed properly to avoid conflicting with or adversely impacting each other. Planning communities effectively to ensure compatibility amongst land uses enables industry and businesses to continue to operate and grow, while enabling the surrounding community to continue about their daily life and activities without experiencing adverse effects from emissions and other impacts from major facilities.</p> <p>Given the nature of major facilities, they are often a source of noise, dust, odour and other emissions which may have potential impacts on surrounding land uses. Sensitive land uses can also have impacts on existing major facilities if they are located too close to a major facility, resulting in complaints from residents, potential risks to public health and safety, need for additional mitigation, impacts to major facility operations and additional costs for the major facility.</p> <p>Consideration of these potential impacts early in the land use planning process, before new land uses are approved, provides opportunities to prevent conflicts. This Guideline contains direction for planning authorities to address land use compatibility through official plan policies and procedures, planning tools and proponent-driven planning applications.</p>	<p>Consideration of these potential impacts early in land use planning process is important if a use has been established prior to new uses being located in an adjacent area.</p> <p>It is recognized that it is ideal to consider impacts of land use compatibility early on in the land use planning process, however there are swaths of land that are zoned for sensitive land uses that were not feasibly assessed when they were zoned. The Guideline should consider additional wording to implement at the site plan stage, in the absence of being able to apply any setbacks or request studies at the time of rezoning (past/historical decisions).</p>

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	<p>To enable planning land uses that avoid incompatible land uses, this Guideline provides AOI distances associated with various types of major facilities. A sensitive land use within that AOI could experience impacts. Planning authorities should use these AOIs to inform land use designations, zoning by-laws and other planning tools to avoid incompatible uses. These AOIs should also be used to inform policies to trigger land use compatibility studies if a development proposal would result in a sensitive land use being located within an AOI. That compatibility study then becomes the basis for assessing potential adverse effects and determining a more specific separation distance that would prevent adverse effects, potentially together with identified mitigation measures. This Guideline also provides MSDs, within which sensitive land uses should not be located, and supports the requirement for a demonstration of need to be completed in relation to a proposed sensitive land use if mitigation measures are the only possible way to prevent adverse impacts or if the proposed sensitive land use is within the MSD of a major facility.</p>	<p>Note the use of “should” here - provides some flexibility based on site-specific technical study.</p> <p>The Guideline requires land use compatibility studies for any sensitive development within the AOI distance and within the MSD; as noted above, this Guideline appears to provide flexibility for the location of sensitive land uses within the MSD (see “should”).</p>
1.3	Guiding Hierarchy for Land Use Compatibility Planning	
	<p>Separation of incompatible land uses is the preferred approach to avoiding land use compatibility issues. In many situations, including in relation to proposals for greenfield development and proposals outside of settlement areas, it is expected that separation can be achieved. Doing this would be consistent with achieving policy 1.1.5.6 of the PPS, which indicates that opportunities should be retained to locate new or expanding land uses that require separation from other uses. When avoidance (i.e. separation) alone is not possible, minimizing and mitigating potential impacts may provide a basis for a proposal. If minimization and mitigation of impacts is not viable, the proposed incompatible land use should not be enabled, and related planning or development applications should not be approved. Planning authorities, proponents (e.g. developers of sensitive land uses and major facility owners) and the surrounding community should work together to achieve land use compatibility.</p> <p>In order to support implementation of the PPS, a guiding hierarchy for land use compatibility is provided as a decision-making framework for planning authorities where avoidance of incompatible land uses through adequate separation should be achieved, or if avoidance is not possible, minimizing and mitigating adverse effects. See Figure 1 below.</p>	<p>What happens in the case if there is not a better alternate location? As I interpret this guideline, if adverse impacts cannot be mitigated or minimized, the proposed development should not be approved.</p> <p>What flexibility is provided by stating that planning or development applications “should” not be approved? Are there any instances where an approval authority could reasonably argue that a use is suitable when it will fact impacts from the industrial/sensitive land uses? The use of “should” does not align with the strength of the wording provided in the diagram below.</p>

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2nd bullet of point 3 should specify that it is the site-specific MSD.

**1. AVOID
incompatible
land uses**

Locate a *sensitive land use* outside of the *AOI* of a *major facility*, and locate a *major facility* to an area where *sensitive land uses* are not captured within its *AOI*.

- Avoidance does not include mitigation measures, only separation between uses.
- Designate appropriate transition areas between *major facilities* and *sensitive land uses* (such as an area where heavy industrial is buffered by lighter industrial, and subsequently may be buffered by commercial or office uses).

*Where avoidance by locating outside the *AOI* is not possible, follow steps 2 and 3 as required:*

**2. ASSESS
impacts in
terms of types
of impact and
magnitude**

- For proposals within the *AOI*, *compatibility studies* are required.
- Proponents should pre-consult with *planning authorities* to *understand* requirements.
- A compatibility study will determine a specific separation distance for that proposal that would avoid adverse effects. That separation distance should be used if possible.

**3. MINIMIZE
and MITIGATE
impacts**

- If the separation distance is not possible, the compatibility study must identify mitigation measures to ensure no adverse effects will remain post-mitigation.
- Even with proposed mitigation, the separation distance should be maximized to minimize impacts, and should not be less than the MSD.
- Once implemented, monitor and maintain required mitigation *measures* over time to avoid future compatibility issues.

Where avoidance and minimization/mitigation of impacts is not possible, do not permit the proposed incompatible land use.

1.4 Key Concepts

Land Use Compatibility Guideline	Niagara Region Review Comments
<p>The following key concepts are briefly described to provide context for planning for land use compatibility. Further details on the application of these concepts are described in subsequent sections.</p> <p>Major Facilities: “Facilities which may require separation from sensitive land uses, including but not limited to: airports, manufacturing uses, transportation infrastructure and corridors, rail facilities, marine facilities, sewage treatment facilities, waste management systems, oil and gas pipelines, industries, energy generation facilities and transmission systems, and resource extraction activities” (PPS).</p> <p>The above definition does not include a comprehensive list of major facilities. Facilities other than those provided as examples with similar potential to affect sensitive land uses must be treated in the same manner under the PPS and this Guideline. See Section 1.5.2 for additional discussion on application of the Guideline to major facilities.</p> <p>Sensitive Land Uses: “Buildings, amenity areas, or outdoor spaces where routine or normal activities occurring at reasonably expected times would experience one or more adverse effects from contaminant discharges generated by a nearby major facility. Sensitive land uses may be a part of the natural or built environment. Examples may include, but are not limited to residences, day care centres, and educational and health facilities” (PPS).</p> <p>The above definition does not include a comprehensive list of all types of sensitive land uses. Planning authorities are expected to identify other similar uses as sensitive under the PPS and this Guideline. While uses such as residential are clearly sensitive land uses in all contexts, sensitive land uses could also include various commercial, retail, institutional, and office uses. Some additional examples of sensitive land uses may include hotels, community centres and places of worship. Under this Guideline residences includes long-term care homes, shelters for emergency housing and detention centres.</p>	<p>Potential conflict with NPC-300 in terms of hotels being subject to this guideline but not NPC-300.</p>
<p>Adverse Effects: “means one or more of:</p> <ul style="list-style-type: none"> 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 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 normal conduct of business” (EPA, ss.1(1)) <p>Note that minor nuisance effects may not meet the definition of adverse effect.</p> <p>Area of Influence (AOI) (Section 2.1.1): an area surrounding the property boundary of an existing or planned major facility where adverse effects on surrounding sensitive land uses have a moderate likelihood of occurring (see Figure 2). Within AOIs, compatibility studies are required for proponents of proposed major facilities or proposed sensitive land uses as part of the supporting documentation for a planning application.</p> <p>Minimum Separation Distance (MSD) (Section 2.1.3): a recommended minimum distance from a major facility within which adverse effects to a sensitive land use are highly likely to occur. Planning authorities should not allow sensitive land uses within the MSD (see Figure 2). Where a sensitive land use is proposed within the MSD, a demonstration of need is required.</p>	<p>How to guarantee NO adverse effects? What if only one or a few people claim adverse effects?</p> <p>If uncertain, who should be responsible for qualifying an adverse effect? For example, there is a nearby industrial use but the planner is uncertain of the outputs of the facility; should a qualified professional proceed with an analysis? Is it sufficient for a planning consultant to complete their own due diligence? What happens when there is a difference of opinion?</p> <p>Highlighted section is new from PPS 1.2.6.2. How does this reconcile with the steps of 1.3... 1.3 appears to indicate a use can be located within a MSD if there is a site specific study specifying an alternative MSD/mitigation measures are feasible.</p>

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	<p>Compatibility Study (Section 2.6): a study that assesses potential adverse effects and recommends separation distances between land uses and mitigation measures, if needed, to prevent impacts to surrounding sensitive land uses.</p> <p>Avoidance: for the purposes of this Guideline, “avoidance” is achieved if a sensitive land use and a major facility are sufficiently separated to prevent any adverse effects on the sensitive land use, without the need of mitigation measures. Locating sensitive land uses outside of the AOI of a major facility would achieve this outcome, as would locating beyond the separation distance assessed through a compatibility study as necessary to avoid an adverse effect without mitigation.</p> <p>Demonstration of Need (Section 2.8): an assessment that determines whether there is an identified need for the proposed use in the proposed location, and evaluates alternative locations for the proposed use if avoidance is not possible. A demonstration of need is only required to be carried out by proponents of sensitive land uses in certain circumstances as outlined in Section 2.8 of this Guideline.</p> <p>Minimize and Mitigate: under this Guideline, minimizing potential adverse effects on sensitive land uses and potential impacts to major facilities is achieved by maximizing the separation distance between land uses that are incompatible, and mitigation refers to the additional measures necessary to prevent an adverse effect or impact, where avoidance is not possible.</p>	<p>“Demonstration of Need” - Further supports hierarchy in favour of employment over community.</p> <p>Comment added in highlighted text.</p>
1.5	Use of the Guidelines	
1.5.1	Audience	
	<p>This Guideline is intended for planning authorities under the Planning Act, including municipalities, planning boards, and the Province in circumstances where it is the planning authority. It should also be considered by the Local Planning Appeal Tribunal (now Ontario Land Tribunal) when determining appeals of decisions or a lack of decision(s) made by a planning authority under the Planning Act. Proponents of proposed development (e.g. developers of sensitive land uses, major facility owners/operators) are another key audience to understand the expectations of the planning authority. This Guideline is also intended for planning consultants and consultants preparing compatibility studies.</p> <p>Proponents for new or expanding sensitive land uses and/or new or expanding major facilities should consult the Guideline prior to applying for approvals under the Planning Act and environmental permissions, to better coordinate requirements for all processes.</p> <p>The Guideline may also be used by stakeholders and the public for educational purposes and increased awareness of considerations in land use planning decisions regarding land use compatibility in their communities.</p>	<p>Comments added in highlighted text, and note name change to LPAT.</p>
1.5.2	Applicability to Major Facilities	
	<p>The Guideline supports implementation of the PPS to address impacts to and from a range of major facilities. This includes but is not limited to major facilities listed as examples in the definition of major facility and listed in Table 1, such as manufacturing facilities, sewage treatment plants, composting facilities and anaerobic landfills.</p> <p>This Guideline is intended to apply to land use planning proposals related to any major facility unless otherwise specified or more specific provincial direction exists in relation to a specific major facility type. In respect of some major facilities for which other Guidelines or direction are provided, this Guideline may apply to encroachment of sensitive land uses on these facilities. This Guideline also does not address specific land uses that are not major facilities as defined by the PPS, but which may also have compatibility requirements. For example, this guideline does not apply to agricultural operations to which the Ontario Ministry of Agriculture, Food and Rural Affairs’ (OMAFRA’s) Minimum Separation Distance</p>	<p>The guideline does not apply to agricultural operations and this is an issue around NR12 with the surrounding chicken farms.</p> <p>What about other exclusions previously listed in the D-1 and D-6 guideline? And how does the application of the LUCG through the PA process coordinate with the ECA process to avoid overlap and ensure consistency in decision making?</p> <p>The Guideline does not apply to agricultural operations to which the OMAFRA MDS Guidelines apply; what about industrial uses located in the agricultural area that could be considered industrial (agriculture-related and on-farm diversified uses)?</p>

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	<p>guidelines apply. See Appendix K for information and guidance related to some specific types of major facilities and other land uses. Guidance on landfills is located in Appendix E.</p>	
	<p>With respect to federally-regulated facilities, such as airports, rail facilities, marine facilities, and oil and gas pipelines, this Guideline does not apply to locating these major facilities. Similarly, this Guideline does not apply to development on federal crown lands that are not subject to the Planning Act. However, planning authorities are required to apply this Guideline in relation to sensitive land uses proposed near these facilities that are subject to the Planning Act.</p>	
1.5.3	<p>Applicability under the Planning Act</p>	
	<p>The Guideline is to be applied to achieve and maintain land use compatibility between major facilities and sensitive land uses when an approval under the Planning Act is needed in relation to:</p> <ul style="list-style-type: none"> • a new or expanding sensitive land use is proposed near an existing or planned major facility; or • a new or expanding major facility is proposed near an existing or planned sensitive land use. <p>“Planned” major facilities or sensitive land uses means that the land use is already designated in the local official plan (OP) and zoned in the local zoning by-law.</p> <p>Planning Act approvals this Guideline would apply to include:</p> <ul style="list-style-type: none"> • OP and OP amendments (OPAs); • Secondary plans; • Community planning permit systems; • Zoning by-laws and zoning by-law amendments; • Plans of subdivision or condominium; • Consents; • Minor variances; and • Site plan control and other planning approvals. <p>The Guideline also applies in situations where the use of the land is not changing, but the nature and/or intensity of the land use is, and an application under the Planning Act is required. For example, a six-storey residential building being replaced by a twenty-storey residential building within the same parcel can trigger this Guideline, if an approval under the Planning Act is required. It also applies in situations where there is a new use proposed for an existing building and an application under the Planning Act is required.</p>	<p>Of note, this section now specifies that the Guideline applies to Planning Act approvals including Site Plan control.</p>

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	For example, a new residential use may be proposed for a building that is currently used for commercial purposes, which would lead to a situation of potential incompatibility if the building is located within an industrial and commercial employment area. Unless referenced under other applicable legislation, this Guideline does not apply when there are existing incompatible land uses (e.g. existing sensitive land uses too close to existing major facilities) and no Planning Act approval is being triggered.	This example is a bit confusing as they comment on residential in an industrial employment area. It must be assumed that they are not meaning an "Employment Area" by definition, which prohibits residential. Thereby a conversion would be required (OPA). Similarly, Employment Lands (outside Employment Areas) would require OPA for land use change to allow residential, therefore I am a bit confused as to why a Planning Act Application would not be the result. I do not see how an "existing" SLU as an intervening use would play into this when an OPA is required still.
1.5.4	Applicability under other Legislation	
	<p>Planning authorities and proponents need to be aware of and consider environmental legislation, regulations, programs and permissions, and other relevant provincial legislation, when making decisions in relation to land use compatibility. Proponents for major facilities that require other permissions (such as an Environmental Compliance Approval (ECA)) should consider undertaking land use planning approvals and environmental permissions, and the studies that inform them, in a coordinated fashion to the extent possible. The Guideline may also be used to inform some Environmental Assessments (EA). For example, this Guideline can be considered in the EA process for waste management projects that may be subject to the EAA. Information and compatibility study requirements developed through planning approvals and EAs may inform requirements for ECAs.</p> <p>This Guideline does not provide guidance on applying for an ECA, a Renewable Energy Approval, or registering on the Environmental Activity and Sector (EASR). Please refer to Appendix J for other documents that provide guidance and direction on these matters.</p>	This policy seems to put the onus on the proponent, but we (Regional staff) would be interested in ensuring there is consistency in the decision-making process as well.
1.5.5	Territory without Municipal Organization	
	<p>Despite generally having lower population and development density, land use compatibility issues exist in Northern Ontario, including in territories without municipal organization. In these areas, the Province or other planning authority should request that studies be completed to ensure that compatibility issues are adequately addressed prior to planning approvals being granted.</p> <p>Planning authorities in Northern Ontario in territories without municipal organization are the following:</p> <ul style="list-style-type: none"> • Planning boards, which coordinate overall future growth and land use planning activities. They can prepare OPs and can pass zoning by-laws in areas without municipal organization within their jurisdiction. • The Minister of Municipal Affairs and Housing defines planning areas of planning boards and may also initiate zoning controls in some territories without municipal organization. The Minister has the authority to approve development applications (plans of subdivision and consent applications) except in those areas where approval is given to other approval authorities, such as planning boards. <p>The Ministry of Natural Resources and Forestry (MNR), which manages Crown land on behalf of the public.</p>	
1.6	Roles and Responsibilities	
1.6.1	Planning Authorities	

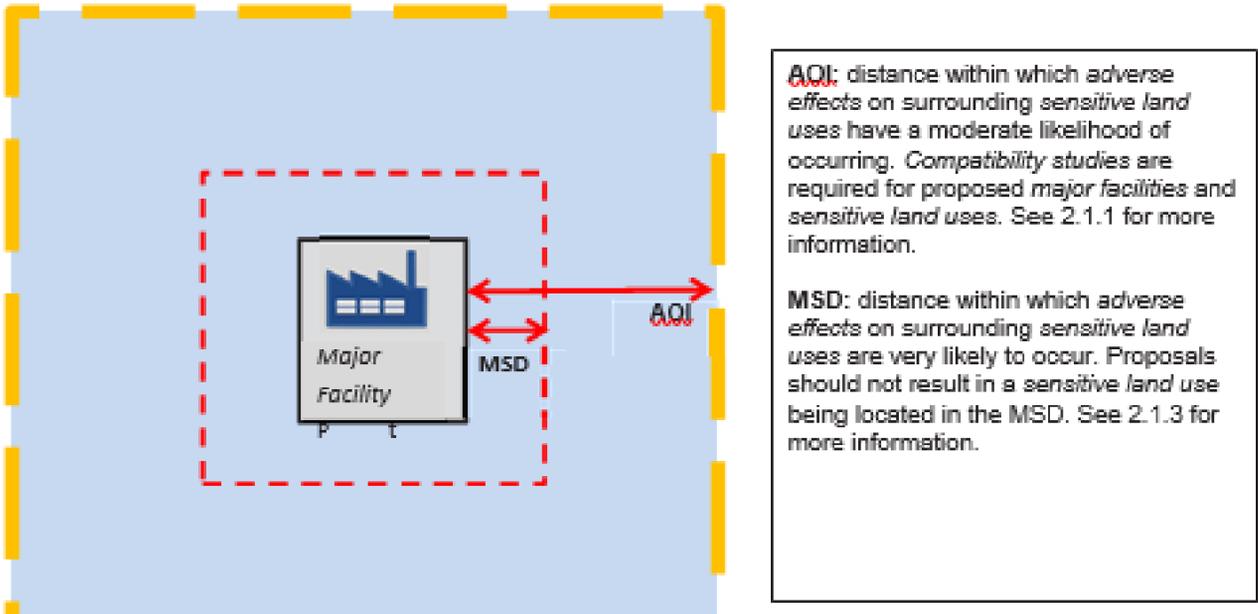
Land Use Compatibility Guideline	Niagara Region Review Comments
<p>“Planning authorities” refers to entities or bodies with land use planning approval authority under the Planning Act, including the council of a municipality, a planning board and the Ministry of Municipal Affairs and Housing (MMAH).</p> <p>Subsections 3(5) and 3(6) of the Planning Act provide that planning decisions and comments, submissions or advice affecting a planning matter by a council of a municipality, a local board, a planning board, a minister of the Crown and a ministry, board, commission or agency of the government shall be consistent with the PPS and shall conform or not conflict with any provincial plans in effect at that time. As such, under the Planning Act and the PPS, planning authorities are responsible for ensuring that major facilities and sensitive land uses are planned and developed to avoid, or if avoidance is not possible, minimize and mitigate adverse effects. They are also responsible for protecting the long-term viability of existing or planned industrial, manufacturing or other employment uses. Planning authorities must not approve development proposals where there are irreconcilable incompatibilities (i.e. adverse effects with no feasible required mitigation measures). Land use planning decisions that result in incompatibility may create ongoing issues for all parties, including municipalities, to address noise and odour complaints and other impacts</p>	<p>Feasible or required? Or just feasible?</p>
<p>Planning authorities should encourage pre-consultation with proponents to identify potential land use compatibility constraints (e.g. closed landfill, existing major facilities and/or sensitive land uses). Planning authorities will need to be satisfied that the classification of a major facility or AOI used are appropriate. Planning authorities are responsible for reviewing Planning Act applications (including required compatibility studies) for potential adverse impacts to existing facilities and/or existing sensitive land uses, and only approving planning applications that have demonstrated that such impacts do not exist or that impacts have been addressed and any necessary mitigation will be implemented. Municipalities that do not have in-house expertise to assist with this task are encouraged to hire third party experts for review of land use compatibility studies. Where feasible, planning authorities should encourage or accept electronic submissions of land use compatibility studies that may be required in this Guideline with planning applications.</p> <p>Planning authorities also undertake planning exercises which must address land use compatibility, such as comprehensive reviews of OPs, development of secondary plans and reviews of zoning by-laws. To address land use compatibility, OP policies and land use designations, requirements for supporting documentation for development applications, and zoning by-laws must be up to date and in accordance with the Guideline. See Table 4 for more details and instruction on how planning documents can incorporate the Guideline.</p>	<p>Timing of a compatibility study should occur at top level of any required PA Application and not be permitted to be pushed down the process to subdivision or site plan unless they represent the highest level of PA Application required to advance development.</p> <p>With respect to the comment on digital submissions, this should be a requirement. The wording should be affirmative in that respect, as the ability to retain, search, disseminate study work for the purposes of other related or area studies is enhanced. Hard copy of such materials is quickly, if not already, an antiquated method of application processing in general.</p>
<p>1.6.2 Proponents of Major Facilities and Sensitive Land Uses</p>	
<p>This section applies to proponents of new or expanding major facilities that would capture existing or planned sensitive land uses within their AOI, and new or expanding sensitive land uses that would be captured within the AOI of an existing major facility.</p> <p>Proponents are responsible for ensuring that they have the proper land use planning approvals in place prior to development, and that their applications for planning and development demonstrate that the proposed new land uses will avoid, or if avoidance is not possible, minimize and mitigate any potential adverse effects.</p> <p>Pre-consultation with planning authorities is highly encouraged when planning for a new development, to identify potential constraints with respect to potential impacts to major facilities and sensitive land uses, explore alternative locations if necessary, and ensure all necessary studies are completed to inform planning decisions. Proponents can request pre-consultation and municipalities are required to agree to pre-consultation upon request under the Planning Act.</p>	<p>What are the implications for a proponent if they don't have the proper land use planning approvals in place prior to development?</p>

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	<p>Engagement between parties will allow for awareness of concerns, potential access to facility-specific information to complete compatibility studies, discussion on recommendations for mitigation, identification of any barriers to mitigation and, if necessary, discussion on agreements for any potential mitigation to address adverse effects and/or potential impacts to the major facility. Where a new sensitive land use is proposed, engaging existing major facilities early is highly recommended to better understand their operations and the mitigation measures that may already be in place. If major facility operators are the proponent of a new or expanded facility, early engagement of nearby sensitive land uses is highly recommended. More information on engagement and consultation is in Appendix C.</p> <p>Proponents are responsible for retaining qualified individuals to undertake appropriate studies, locating and designing their proposal to avoid, minimize and mitigate adverse effects and/or potential impacts to major facilities, and for installing and monitoring any required mitigation measures, as well as ensuring any necessary permissions (including ECAs, EAs and EASR registrations as applicable) under the EPA, the EAA or the Ontario Water Resources Act (OWRA), or other relevant legislation, are in place (see Appendix B for more on qualified individuals). Proponents of major facilities are encouraged to undertake studies supporting land use planning approvals and environmental permissions in a coordinated manner, where possible.</p>	<p>Barriers to this approach are significant where the proposed sensitive land use threatens existing industry. Most industry will not participate or engage with the developer of a sensitive land use where they think it will disadvantage their operations or advantage the sensitive land use. This leads to issues down the road with potentially conflicting land uses as a result of the industry not engaging in the public process. How can these conflicts be alleviated if the industry does not participate in the planning/public process?</p> <p>What about where the proponent is the sensitive land use and they don't require ECAs, etc? Salit Steel didn't have an ECA and was unregulated up until last year. They had no requirement to comply with noise and air quality at their property line or based on sensitive receptors.</p>
1.6.3	Existing Sensitive Land Uses and Major Facility Owners/Operators	
	<p>Owners of existing sensitive land uses are encouraged to engage with proponents and planning authorities when major facilities are proposed, and the sensitive land use is captured within their AOI.</p> <p>Conversely, existing major facility owners and operators are encouraged to respond to and engage with proponents and planning authorities when sensitive land uses are proposed within the AOIs of the major facility.</p> <p>Major facilities are encouraged to share information that may lead to the completion of land use compatibility studies and other reports that may be needed, provided appropriate privacy considerations are met. Ensuring compatibility studies are based on the best and current information will help to ensure potential compatibility issues are avoided in the future.</p>	<p>More clarity on the as-of-right status of both land uses needs clarity (if not offered later in this document).</p> <p>The reality is this doesn't happen. Owners of existing sensitive land uses may be represented by one land owner; and major facilities may not provide this information because they think it will assist in the sensitive land use being approved.</p>
1.6.4	Ministry of the Environment, Conservation and Parks (the Ministry)	
	<p>The Ministry is responsible for providing land use planning and technical guidance on land use compatibility matters related to certain types of major facilities, and other matters that fall within its mandate and programs.</p> <p>As a partner ministry, the Ministry also supports MMAH in the review of provincial planning policies and Planning Act applications where MMAH is the approval authority. The Ministry will conduct technical reviews where MMAH is the planning authority. In limited cases where MMAH is not the planning authority, municipalities may engage with the Ministry directly through the Municipal Plan Review process if they require specific technical input relating to compatibility studies. The Ministry does not have a role in reviewing and approving technical studies supporting planning applications under the municipal review process; its role is limited to providing specific technical information or guidance under its mandate and legislation.</p> <p>The Ministry is not a decision-maker on Planning Act applications. As part of its broader mandate to protect Ontario's air, land and water, the Ministry issues permissions required by its key legislation including the EPA, the EAA, OWRA and their regulations for some activities at major facilities. Environmental permissions, which include ECAs, EAs and EASRs, do not replace the need for land use planning approvals to address compatibility.</p>	
1.7	Planning Legislation and Policy Context	

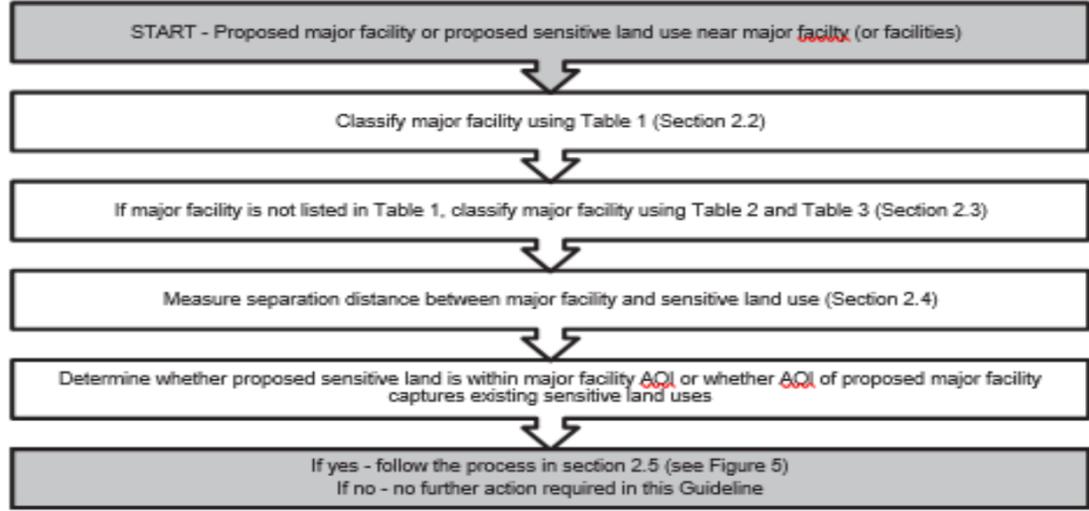
Land Use Compatibility Guideline	Niagara Region Review Comments
1.7.1	Planning Act
1.7.2	The Provincial Policy Statement (PPS)
1.7.3	A Place to Grow: Growth Plan for the Greater Golden Horseshoe

Land Use Compatibility Guideline		Niagara Region Review Comments
	<p>A Place to Grow is issued under the authority of section 4 of the Places to Grow Act, 2005. A Place to Grow is the Ontario government's initiative to plan for growth and development in the Greater Golden Horseshoe. The area subject to A Place to Grow is set out in O. Reg. 416/05: Growth Plan Areas, made under the Places to Grow Act, 2005. Key policies relevant to the Guideline include 2.2.5.6 to 2.2.5.10.</p> <p>A Place to Grow policies 2.2.5.6 and 2.2.5.7 provide direction to municipalities to designate employment areas and protect them for employment use over the long- term by doing such things as prohibiting residential uses, prohibiting or limiting other sensitive land uses, and providing an appropriate interface between employment areas and adjacent non-employment areas to maintain land use compatibility. To support this, policy 2.2.5.9 and 2.2.5.10 address employment land conversion.</p> <p>A Place to Grow policy 2.2.5.8 stipulates that 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</p> <p>A Place to Grow is issued under the authority of section 4 of the Places to Grow Act, 2005. A Place to Grow is the Ontario government's initiative to plan for growth and development in the Greater Golden Horseshoe. The area subject to A Place to Grow is set out in O. Reg. 416/05: Growth Plan Areas, made under the Places to Grow Act, 2005. Key policies relevant to the Guideline include 2.2.5.6 to 2.2.5.10.</p> <p>A Place to Grow policies 2.2.5.6 and 2.2.5.7 provide direction to municipalities to designate employment areas and protect them for employment use over the long- term by doing such things as prohibiting residential uses, prohibiting or limiting other sensitive land uses, and providing an appropriate interface between employment areas and adjacent non-employment areas to maintain land use compatibility. To support this, policy 2.2.5.9 and 2.2.5.10 address employment land conversion.</p> <p>A Place to Grow policy 2.2.5.8 stipulates that 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.</p>	
1.8	Environmental Legislation and Permissions	
	<p>The following sections provide background on other provincial legislation and permissions related to land use compatibility. More information on environmental permissions can be found on the Ministry's website at https://www.ontario.ca/page/environmental-permissions.</p>	
1.8.1	Environmental Protection Act (EPA)	
	<p>A key part of the legislative basis for the Guideline is subsection 14(1) of the EPA, which provides:</p> <p>Subject to subsection (2) but despite any other provision of this Act or the regulations, 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.</p>	<p>How does the Guideline account for major facilities that are operating contrary to the EPA but without an ECA?</p>
1.8.2	Environmental Assessment (EA)	

Land Use Compatibility Guideline		Niagara Region Review Comments
	<p>Ontario's EA program promotes good environmental planning by determining the benefits and potential effects of projects, as well as evaluating alternatives, before projects are implemented. Projects that involve new or expanding major facilities may be subject to the EAA. The Minister may also designate a project as subject to the EAA.</p> <p>EA studies may involve evaluating alternative locations for siting a proposed major facility and must consider the proposed project's potential impacts to the environment, including impacts to the natural, social, economic, built, and cultural environments. This must include consideration of impacts to surrounding land uses. Appropriate measures must be proposed and implemented to address any impacts, such as noise and odour. Accordingly, the compatibility between a proposed major facility and its surrounding land use is often directly assessed and considered during an EA planning process.</p> <p>EA documents may be a resource for information related to land use compatibility when considering sensitive land use development near major facilities or vice versa.</p>	
1.8.3	Environmental Compliance Approvals (ECAs)	
	<p>ECAs are environmental permissions that are required by the EPA and the OWRA for certain activities which release contaminants into the air (including noise, vibration, odour and dust), land or water, such as industrial activities, waste management activities, sewage works, water works, and stormwater management systems.</p> <p>Existing ECAs may be able to be used as a source of information for conducting land use compatibility studies in a range of situations. The ECA and supporting studies include information about the assessment of noise, dust and odour emissions from a major facility, conditions on the timing of operations, setbacks or infrastructure and technology systems for mitigating emissions. However, there may be limitations on the ability to obtain reports used to inform an ECA. Major facilities are encouraged to provide reports and information when it will be used for such purposes as developing land use compatibility studies for proposed development.</p> <p>Terms and conditions set out in an ECA are included to help ensure the proper operation and maintenance of equipment and processes to minimize the impact to the environment and to prevent an adverse effect resulting from the operations. Depending on the type of facility, the ECA may include specific requirements to control dust, odour, noise, vibration, and other contaminants that can be released via air, water or land, to the environment.</p> <p>It should be noted that while ECAs can address various matters that relate to land use compatibility, such as the use of noise-attenuating technology, there are a range of issues related to the layout and operation of the site that are addressed through land use planning and not ECAs.</p> <p>It should be further noted that it cannot be assumed by a planning authority that a major facility with an ECA will implement additional mitigation measures to facilitate a sensitive land use proposed to be established nearby.</p>	<p>Only way to get these (possibly) is through and FOI to MECP. The MECP will not release them without an FOI.</p> <p>Or that a major facility that release contaminants is operating in compliance/with an ECA...</p>
1.8.4	Environmental Activity and Sector Registry (EASR)	

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<p>An EASR is an online self-registration process for subject facilities instead of seeking a ministry approval through an application and review process.</p> <p>If a facility is required to register under the Air Emissions EASR, the proponent of that facility is required to have reports prepared that assess air, noise, fugitive dust and odour emissions prior to registration. Major facilities are encouraged to provide reports and information when it will be used for such purposes as developing land use compatibility studies for proposed development. Additionally, some summary information (i.e. Summary Table from Emissions Summary and Dispersion Modelling Report and the Acoustic Summary Table from the Noise Report) is available from the Ministry website through the Access Environment portal tools function.</p>	
<p>PART B: Assessing Land Use Compatibility</p>	
<p>2 Tools to Assess Land Use Compatibility</p>	
<p>2.1 Area of Influence (AOI) and Minimum Separation Distance (MSD)</p>	
<p>AOIs and MSDs specific to certain sectors or types of major facilities have been provided in this Guideline (Table 1). AOIs and MSDs have also been assigned to major facility class based on their anticipated local impact (Table 2). Where available, the facility-specific AOI/MSD in Table 1 shall be used. Where there is no facility-specific AOI/MSD in Table 1, or if planning authorities are determining an AOI for an area which may include a variety of facilities, Table 2 and Table 3 can be used to determine the appropriate Class-related AOI. See Figure 2 below for a visual representation of these areas, and Section 2.1.1, Section 2.1.2, and Section 2.1.3.</p>	
 <p>AOI: distance within which adverse effects on surrounding sensitive land uses have a moderate likelihood of occurring. Compatibility studies are required for proposed major facilities and sensitive land uses. See 2.1.1 for more information.</p> <p>MSD: distance within which adverse effects on surrounding sensitive land uses are very likely to occur. Proposals should not result in a sensitive land use being located in the MSD. See 2.1.3 for more information.</p>	<p>Label bold black line as property line?</p>

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	<p>AOIs and MSDs provided in this Guideline are based on analysis of the Ministry's complaint data (specific to noise, dust and odour) from a ten-year period, its experience dealing with issues associated with land use compatibility and considering other ministry guidelines and regulations. While the AOIs and MSDs were mainly based on adverse effects related to noise, dust and odour, the major facilities listed in Table 1 and Table 2 may have other adverse effects, such as groundwater and surface water contamination or methane leakage.</p>	
2.1.1	Area of Influence (AOI)	
	<p>An AOI is defined in this Guideline as an area surrounding the property boundary of an existing or planned major facility where adverse effects on surrounding sensitive land uses have a moderate likelihood of occurring. If a land use proposal would place a new or expanding sensitive land use within a major facility's AOI or a new or expanding major facility would capture sensitive land uses within its AOI, a compatibility study will be required (see Figure 3). Compatibility studies assess potential impacts associated with a planning proposal, determine a recommended separation distance for the proposed use, and if required, identify necessary mitigation measures to prevent impacts and demonstrate the need for a sensitive land use in a specific location (see Section 2.6).</p> <p>If a land use proposal would place a proposed sensitive land use outside of a major facility's AOI, or when a new major facility is proposed in a location that does not capture existing or planned sensitive land uses within a major facility's AOI, this Guideline does not require compatibility studies.</p>	<p>"Should" be required. There may be cases that do not warrant a study, and it would be nice to have that flexibility</p> <p>Can an AOI be "reduced" if a property has site-specific zoning that only encompasses the industrial use? Instead of measuring from the property boundary?</p>

Land Use Compatibility Guideline		Niagara Region Review Comments
	 <p>Figure 3 – Steps to determine if land use compatibility study is required.</p>	<p>The step indicating “Measure separation distance between major facility and sensitive land use (Section 2.) – is it appropriate to say “from property line”?”</p>
	<p>AOIs are intended to be used as the study area as well as the default separation distance from a major facility unless compatibility studies recommend a different separation distance. The separation distance used should be sufficient to permit the functioning of the two potentially incompatible land uses without an adverse effect to the sensitive land use or potential impacts to major facilities. Separation of incompatible land uses under this Guideline does not result in ‘freezing’ or denying usage of the intervening land. Other compatible, transitional uses may be able to be developed in the intervening land.</p>	<p>I thought the minimum separation distance was the default separation distance? I think the highlighted section belongs under the MSD section, not AOI. Or should this say “to evaluate and recommend site specific separation distance from a major facility”?</p>
2.1.2	<p>Planning Authority-Determine Alternate AOIs</p>	
	<p>The AOI distances noted in Table 1 and Table 2 of this Guideline must be used as the AOI in most situations. In relation to specific areas or sites, planning authorities may determine an alternate AOI, which may be smaller or larger than the AOI outlined in this Guideline, if supporting studies are completed to justify this alternate AOI. An alternate AOI may be smaller, for example in locations with a planning objective of increasing intensification as well as avoiding conflicts. An alternate AOI may also be larger if the planning authority has determined that adverse effects may occur outside of the Guideline’s AOI, for example in consideration of other area or facility specific emissions. In either case, the planning authority may choose to implement policies that restrict uses and/or require compatibility studies based on their studies.</p> <p>The development of an alternate AOI is a voluntary activity undertaken by the planning authority that is intended to support its broader land use planning framework. As such, studies to justify an alternate AOI should be developed by the planning authority (supported by consultants as necessary), and should take place during a broader planning process (such as review of Official Plans, Secondary Plans and/or zoning by- laws) so that the alternate AOI can inform the overall community structure of a particular area surrounding a major facility or employment area, and inform policies setting the study requirements for future development applications in the area.</p> <p>Alternate AOIs should only be developed for a specific major facility or specific employment area, and not for a sector of major facilities. For example, work completed to justify an alternate AOI at steel mill A, does not mean that all steel mills can have the same alternate AOI; the planning authority would</p>	<p>Why is the review and development of an alternate AOI limited to Planning Authorities? Further, limiting the development of alternate AOIs to “broader planning processes” could be onerous for local planning authorities during an MCR. It would result in additional in-house or procured work to identify and review Major Facilities to determine the necessity or feasibility of alternative AOI.</p> <p>What if a Major Facility is proposed outside of the timeframe of a MCR or broader planning process? Can an alternate AOI be assessed and developed?</p> <p>Highlighted section is unclear, should this say “to determine the alternative AOI”?</p>

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	<p>undertake separate studies for each steel mill (in each location) to develop an alternate AOI appropriate for that specific steel mill.</p>	
	<p>Planning authorities may only consider using an alternate AOI if it can be justified through the results of a technical and scientific process similar to that of a compatibility study. The study should include qualitative and quantitative assessments of the magnitude, significance, frequency and extent of the expected impacts to the major facility or to sensitive land uses. The assessments would need to demonstrate that impacts are expected within a smaller area than the AOI specified in this Guideline.</p> <p>The alternate AOI must never be smaller than the MSD in the Guideline (see Section 2.1.3).</p>	<p>Is this meant to address larger swaths of industries (i.e. all industries of Type X are able to have a reduced AOI)? Or is this to be applied on one-off basis?</p>
2.1.3	<p>Minimum Separation Distances (MDS)</p>	
	<p>MSDs are defined in this Guideline as recommended minimum separation distances. They are smaller than the AOI and are the distance within which adverse effects and compatibility issues are highly likely to occur. Proposals should not result in sensitive land uses being located in MSDs, as adverse effects are highly likely to occur. Such proposals should only be considered where there is a demonstrated need for the proposed use in that location and no other location is feasible, and mitigation to prevent adverse effects is possible and will be implemented. Avoiding sensitive land uses being located in the MSD should be feasible in areas of new development such as areas of settlement expansion and new built-up areas, and in employment areas intended for industrial or manufacturing uses in the long-term. If a new or expanding sensitive land use is proposed within a major facility's MSD or a new or expanding major facility would result in sensitive land uses within its MSD, compatibility studies and mitigation measures to address potential adverse effects on sensitive land uses and potential impacts to major facilities will be required. A demonstration of need will also be required if the proposed land use is a sensitive land use within the MSD of an existing or planned major facility.</p>	<p>This statement is loaded with questions as it relates to absolute encroachment limit, because 200m on class 1 for MSD seems rather excessive. When I read this, it indicates "should not be located in" MSD, but the results of a compatibility study and mitigating measures would afford encroachment, but to what degree? Site by Site recommended separation would become a benchmark on that site and should sensitive land use be established as a result, then nothing more impactful could establish on the site if the MF changed users and use.</p> <p>I am having difficulty comprehending a recommendation increase of 20 to 200m for Class 1 for MSD. Seems drastic.</p> <p>Demonstration of need is going to vary from LAM to LAM and if the expectation is to use all available urban area efficiently, these lands should expect to come online at some point, so curious how delaying the development would be beneficial in the long run.</p> <p>"Avoiding sensitive land uses being located in the MSD should be feasible in areas of new development" – Should the language be revised to "shall"?</p> <p>Greenfield areas? Is the demonstration of need for areas of infill/redevelopment as well?</p>

Land Use Compatibility Guideline		Niagara Region Review Comments
2.2	How to Classify a Major Facility with an Assigned AOI and MSD	
	<p>Certain types of major facilities have been assigned specific AOIs and MSDs. The proponent and planning authority should first determine whether a given major facility type has been assigned an AOI and MSD in Table 1. Where available, the facility-specific AOIs and MSDs in Table 1 should be used instead of class-related AOIs and MSDs in Table 2.</p> <p>Due to the differing exact characteristics of emissions of different activities, some types of major facilities have a larger MSD relative to their AOI compared to some other major facility types.</p> <p>Where other types of major facilities are being considered (i.e. facilities that are not listed in this table), the approach outlined in Section 2.3 to determine an appropriate class-related AOI and MSD should be used and Table 2 and Table 3 should be referenced.</p>	

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Table 1 – Area of influence and minimum separation distance for select major facilities.

Select Major Facility	Description of Major Facility	AOI & Class	Minimum Separation Distance
Aggregate Operations	Aggregate extraction, Resource extraction, Other mineral quarries	1,000m Class 3*	500m*
Asphalt Manufacturing	Asphalt mixture and block manufacturing, Asphalt shingle and coating manufacturing	1,000m Class 3	300m
Cannabis production and processing facilities	Indoor cannabis production facilities that are located in a <i>settlement area</i> on lands that are zoned for industrial uses; and all cannabis processing facilities	2,000m Class 5	500m
Cement Manufacturing	Cement manufacturing and distribution	2,000m Class 5	500m
Chemical Product Manufacturing	Inorganic chemical manufacturing, Household cleaning and miscellaneous product manufacturing	2,000m Class 5	500m
Composting Facilities	Composting facilities	1,500m Class 4	500m
Concrete (Ready-mix)	Ready-mix and concrete product manufacturing facilities	250m Class 1	100m
Industrial Anaerobic Digesters	Anaerobic digesters that are not agricultural uses	1000 m Class 3	500m
Food Manufacturing	General industrial manufacturing of food products	500m Class 1	200m
Industrial Food Mills (non-agricultural)	Wet corn or flour mill	750m Class 2	300m
Landfills and Dumps (see Section 7.2 of Appendix E)	Operating and non-operating sites	case-by-case Class 5	500m

Is the MSD for aggregate operations measured from property line or area of extraction? Often aggregate operations retain land outside of their extraction area to act as a buffer.

There are existing industrial food mills with residential uses immediately across the street in Niagara. How should intensification/redevelopment in these areas be treated?

Does “all Cannabis processing facilities” include outside of settlement areas as well?

In most instances, the facility specific uses could be applied. Provides greater certainty of MDS and AOI for specific facilities that previously may have been classified as a Class II or ClassIII

Draft Regional OP to be completed Q4 2021, impact of changes to MCR work already completed with respect to Employment lands.

Encourage MECP to do some GIS analysis on the facilities they have record of, to understand the implications for growth of UGCs (already delineated) and MTSAs

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Select Major Facility	Description of Major Facility	AQI & Class	Minimum Separation Distance
Meat and Meat Product Processes	Slaughterhouses and rendering facilities, Meat by-product processing, Production of foods using fats or oils, Cooking oil production	1,500m Class 4	500m
Metal and Glass Parts Manufacturing	Manufacturing steel parts, Foundries, Metal stamping, Manufacturing glass or fiber glass auto parts	600m Class 2	300m
Oil Refinery	Refinery for oil and oil products	2,000m Class 5	500m
Painting/Coating	Application of paint, solvent, lacquer or other coating/ Includes paint spray booths, electroplating, tanneries	400m Class 1	100m
Paper Manufacturing	Paper, newsprint and paperboard mills	1,000m Class 3	400m
Plastics Manufacturing	Manufacturing plastic or rubber products	500m Class 1	100m
Recycling Facilities – General	The sorting, processing, storage and transfer of recycled material (except auto parts)	900m Class 3	200m
Recycling Facilities – End-of-Life Vehicles	The sorting, processing, storage and transfer of motor vehicles	2,000m Class 5	300m
Scrap Yards	Scrap metal recyclers, auto recyclers, auto wreckers	1,500m Class 4	300m
Steel Mills	Iron and steel manufacturing	2,000m Class 5	500m
Waste Transfer Stations	The sorting, processing and transfer of waste	400m Class 1	100m
Sewage Lagoons	Sewage treatment lagoons	500m Class 1	200m

Land Use Compatibility Guideline		Niagara Region Review Comments
2.3	How to Classify a Major Facility with No Facility-Specific AOI and MDS	
	This section provides an overview of how to determine the AOI and MSD based on a class of facilities, where the specific major facility type is not listed in Table 1.	
	<p>1. Identify the type of the major facility</p> <p>Table 2 of this Guideline provides a description and examples of major facility classes to serve as a guide for determining an AOI and MSD. There are 5 classes of major facilities.</p> <p>The first step in the process of classifying is to identify the type of major facility and seek information to better understand its operation and potential adverse effects.</p> <p>If a major facility is being proposed, the facility type should be known. If a sensitive land use is being proposed or planned, particularly relative to a planned employment area, the planning authority should be consulted to advise on specific types of uses permitted under local zoning-by-laws and future development plans. Where major facility development plans are unknown or where the planning authority is determining an AOI for an area which contains multiple major facilities, the AOI for the largest scale major facility that could be permitted by the existing planning framework should be assumed (“worst case” scenario), unless, in collaboration with the planning authority, it is determined that certain uses are impractical in a specific area.</p>	<p>Additional examples would be helpful to assist in step 1.</p> <p>What about where a new sensitive use is proposed in proximity to an existing major facility, but insufficient information is known about the facility to classify the use? Historically we have put the onus on the proponent to classify the use.</p>
	<p>2. Consider the scale and characteristics the operations</p> <p>Identify the adverse effects commonly associated with the type of existing or proposed major facility (see Table 3) and its operations, including:</p> <ul style="list-style-type: none"> • impacts related to the timing of operations (e.g. day-time, shift or 24-hour operations); • fugitive emissions and vehicular emissions related to the operation; • traffic related to the operation; • noise, vibration and fugitive dust from indoor and outdoor operations (e.g. wood cutting, outdoor welding, moving stored materials); • adverse effects that may result from ancillary operations (e.g. delivery of raw materials via rail cars or marine facilities, facility lighting); • odours from indoor and outdoor operations (e.g. organic waste handling, outdoor storage for composting facilities, wastewater treatment lagoons); • any history of complaints in the area about adverse effects. <p>Where available, use approval information in the existing ECA or EASR for the major facility (e.g. existing ECAs and EASRs) as a source of information, as they may include conditions on the timing of operations, setbacks or systems for mitigating impacts for facilities in the area. ECAs and EASR information can be accessed at the Ministry’s Access Environment site and may be useful.</p> <p>Note, the level of adverse effects anticipated should only be assessed from day-to-day operations, not from emergency situations or spills.</p>	<p>Note for internal purposes: this checklist should be included in the Terms of Reference being developed for Land Use Compatibility studies, to ensure that the information provided aligns with the Provincial guidelines.</p>

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<p>3. Select the appropriate class</p> <p>Based on available information and professional expertise, a facility class and associated AOI and MSD is then selected for a major facility.</p> <p>The planning authority will need to be satisfied that the classification is appropriate. Proponents are encouraged to consult with the planning authority before proceeding further to verify that the information they are gathering will be satisfactory to them.</p> <table border="1" data-bbox="399 602 1635 960"> <thead> <tr> <th>Select Major Facility</th> <th>Description of Major Facility</th> <th>AOI & Class</th> <th>Minimum Separation Distance</th> </tr> </thead> <tbody> <tr> <td>Municipal and private communal wastewater facilities (small)</td> <td>Facilities with a rated capacity less than 25,000 cubic metres per day</td> <td>300m Class 1</td> <td>100m</td> </tr> <tr> <td>Municipal and private communal wastewater facilities (large)</td> <td>Facilities with a rated capacity more than 25,000 cubic metres per day</td> <td>1,250m Class 4</td> <td>500m</td> </tr> </tbody> </table> <p>* AOI and MSD only applies to new or expanding sensitive land use proposals near major facility aggregate operations.</p>	Select Major Facility	Description of Major Facility	AOI & Class	Minimum Separation Distance	Municipal and private communal wastewater facilities (small)	Facilities with a rated capacity less than 25,000 cubic metres per day	300m Class 1	100m	Municipal and private communal wastewater facilities (large)	Facilities with a rated capacity more than 25,000 cubic metres per day	1,250m Class 4	500m	<p>Confirm who the planning authority is – Land Use Compatibility studies are often solely requested and reviewed by the Region. Is the Region the authority that confirms whether the classification is appropriate, or is it the Local Area Municipalities (i.e. approval authority)?</p>
Select Major Facility	Description of Major Facility	AOI & Class	Minimum Separation Distance										
Municipal and private communal wastewater facilities (small)	Facilities with a rated capacity less than 25,000 cubic metres per day	300m Class 1	100m										
Municipal and private communal wastewater facilities (large)	Facilities with a rated capacity more than 25,000 cubic metres per day	1,250m Class 4	500m										
	<p>The differentiation between Classes 1-2, 2-3, 3-4, and 4-5 in Table 3 are unclear and are thus open to significant interpretation, which may result in the guidelines being applied inconsistently or inaccurately. Consideration should be given to revising Table 3 to include separate columns for each class, with impacts differentiated between each class, versus a threshold. Alternatively, at minimum, the text of this section should be expanded to explain in detail how the threshold between each class is to be determined.</p> <p>Additional language should be added to clarify that the Classes ONLY apply when there are no applicable Facility Specific AOIs and MDS (previous tables).</p>												

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Table 2 – Area of influence and minimum separation distance for classes of major facilities.

Class	Description of Major Facility	AOI	Examples of Major Facility (see Table 1 for more examples)	Minimum Separation Distance
Class 1	Operations with known smaller <i>adverse effects</i> .	500m	Food Manufacturing Sewage Lagoons Various <u>EASR</u> activities	200m
Class 2	Operations with moderate <i>adverse effects</i> . May include some outdoor operations.	750m	Manufacturing Metal and Glass Parts	300m
Class 3	Operations with moderate to significant <i>adverse effects</i> that may be difficult to mitigate. May include larger outdoor operations.	1,000m	Aggregate Operations (in relation to <i>sensitive land use proposals</i>)	500m
Class 4	Operations with significant <i>adverse effects</i> that may be difficult to mitigate. May include larger <u>outdoor</u> operations.	1,500m	Meat and meat product processes (slaughterhouses and rendering facilities)	500m
Class 5	Operations with the most significant <i>adverse effects</i> that may be difficult to mitigate. May include larger outdoor operations.	2,000m	Chemical product manufacturing	500m

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Table 3 – Characteristics for classifying major facilities.

CLASS 1 → CLASS 2 → CLASS 3 → CLASS 4 → CLASS 5			
IMPACTS			
Noise	Sound is not audible off property	Sound occasionally audible off property	Sound frequently audible off property
Vibration	No ground borne vibration on plant property	Possible ground-borne vibration, but cannot be perceived off property	Ground-borne vibration can frequently be perceived off property
Dust (Point Source)	Infrequent and not intense	Frequent and occasionally intense	Persistent and/or intense

This diagram is clear however, is there a standard interpretation to quantify the characteristics? For instance, how are the following terms defined / quantified "infrequent", "frequent", "persistent"? How is seasonality considered?

Using Table 3, unlikely to get a Class 2 or 4.

CLASS 1 → CLASS 2 → CLASS 3 → CLASS 4 → CLASS 5			
Dust (Fugitive Emissions)	Low probability of fugitive emissions	Moderate probability of fugitive emissions	High probability of fugitive emissions
Odour	Infrequent and not offensive	Frequent and occasionally offensive	Persistent and/or usually offensive
SCALE OF OPERATION			
Scale of Production	Small scale plant	Medium level of production allowed	Large production levels
Outside Storage	Minimal storage	Outside storage permitted	Outside storage of raw and finished products
Process	Self-contained plant or building	Outdoor storage of low to moderate amounts of wastes or materials	Outdoor storage of large amounts of wastes or materials
Process Outputs	Produces/stores a packaged product	Periodic outputs of minor annoyance	Frequent outputs of major annoyances
Hours of Operation	Daytime operations only	Shift operations permitted at times	Daily or 24 hour shift operations permitted
On-site Movement	Infrequent movement of products and/or heavy trucks	Frequent movement of products and/or heavy trucks with the majority of movements during daytime hours	Continuous movement of products by heavy trucks and rail cars including at night

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2.4	<p>How to Measure Separation Distances, AOIs and MSDs</p> <p>A separation distance, AOI or MSD is typically measured as the actual distance between the property line of a sensitive land use and the property line of a major facility.</p> <p>To determine whether the proposal would result in an existing or planned sensitive land use within the AOI or MSD for a particular facility, the proponent should do the following:</p> <ul style="list-style-type: none"> • measure the current separation distance between the property boundary of a proposed sensitive land use or major facility to the property boundary of the existing sensitive land use or major facility; and • determine whether the separation distance falls within the AOI or MSD. <p>Measuring the separation distance, AOI and MSD from the major facility's property boundary, instead of from the major facility building or source of emission, is recommended, as it will account for any future expansions that may be contemplated or new major facilities that may be developed within the property boundary.</p> <p>However, the planning authority may allow measurement of the separation distance, AOI and MSD from the major facility's building or equipment that is the actual source of adverse effects as opposed to the property line. This approach could be used, for example, if the major facility has a buffer area on the property which was included in order to shield impacts of the major facility from adjacent uses. However, this method does not take into account any future expansions or future outdoor works such as vehicular traffic, or onsite storage and maintenance. It should only be used if the planning authority and major facility is agreeable and if future expansions of the major facility are not expected.</p>	<p>Add context to better apply this Guideline to situations where a property has dual zoning (i.e. industrial use is limited to that zoning on the property).</p> <p>Suggest including consideration for site specific setback preventing expansions, as outlined in the current D6 Guideline, otherwise this approach will always be used by new sensitive uses.</p>
2.5	<p>What to do if Development is Proposed within an AOI or MSD</p> <p>When a new or expanding sensitive land use is proposed within a major facility's AOI or MSD, or when a proposed or expanding major facility's AOI or MSD captures existing or planned sensitive land uses, the steps below apply and are the responsibility of the proponent of the planning application. See Figure 4 and Figure 5.</p> <ol style="list-style-type: none"> 1) Carry out compatibility studies (see Section 2.6). 2) Determine through the compatibility studies whether adverse effects to sensitive land uses from an existing or planned major facility or impacts to major facilities are expected. The determination must include consideration of relevant ministry standards or technical guidelines and assessments. Then: <ol style="list-style-type: none"> a. If a compatibility study shows that no adverse effects to sensitive land uses or impacts to major facilities is expected at the proposed separation distance (or a revised separation distance based on the study), without mitigation, then no further action is required (unless the proposal is for a new sensitive land use located within the MSD, see c) below). b. If a compatibility study shows that adverse effects to sensitive land uses or impacts to major facilities are expected at a proposed separation distance, mitigation measures must be identified (see Section 3). Implementation of identified mitigation measures must be required as part of the planning approval process, and they must be maintained over time. c. If a proposed new sensitive land use is located within the AOI of a major facility and mitigation measures are identified or if a proposed new sensitive land use is located in the MSD of a major facility, a demonstration of need is required (see Section 2.8). 	<p>The descriptions are clearly being conveyed. On it's own a D-series it remains clear.</p> <p>The last paragraph is definitive in that new sensitive use "must not be permitted" where adverse effects cannot be mitigated. How does this change should NPC-300 Class 4 be applied by the municipality if noise and vibration are the focus of nuisance?</p> <p>It would strike me as more instances of NPC-300 Class 4 will be used in future, or at least efforts by proponents of sensitive land uses will lobby for the designation.</p> <p>In such instances where the Industrial Class 3 (under current classification) inside an Employment Area should be concerned about Class 4 use given the purpose of Employment Area identification and protection from encroaching sensitive land uses.</p> <p>The PPS says "minimize and mitigate any potential adverse effects...minimize public health and safety, and ensure long-term...." It does not say no adverse effects should be expected. I think this is contrary to the PPS.</p> <p>Minimization and mitigation typically limit and minimize the adverse impacts from development, but may not be able limit <u>all</u> adverse impacts. This definitive language of no adverse impacts or the planning authority must not permit a development is highly subject to interpretation and may limit what would otherwise be good development in</p>

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	<p>The planning authority is responsible for reviewing the documents (e.g. compatibility studies) prepared by the proponent and must be in agreement with the conclusions of the documents, before Planning Act approval is provided. When adverse effects from major facilities cannot be minimized and mitigated such that no adverse effects are expected, the planning authority must not permit the new development.</p>	<p>keeping with Provincial and municipal planning and economic strategies, policies and goals. Further an adverse effect may impact community members differently, depending on their individual health versus that of the general population, so meeting this threshold may be difficult for any development to meet this standard.</p>
2.6	Compatibility Studies	
	<p>Compatibility studies assess potential adverse effects to sensitive land uses and impacts to major facilities and recommend separation distances and mitigation measures to prevent adverse effects or impacts to surrounding land uses.</p> <p>Compatibility studies are required when:</p> <ul style="list-style-type: none"> • a new or expanding sensitive land use is proposed within a major facility's AOI (including MSD); or • a new or expanding major facility is proposed to locate where there are existing or planned sensitive land uses within the AOI (including MSD) of the proposed major facility. <p>Compatibility studies should be prepared for the proponent by qualified individuals with experience in preparing technical assessments. The planning authority is responsible for reviewing the compatibility studies submitted by the proponent, and must be in agreement with the conclusions of the documents, prior to moving forward through the planning approvals process. If in-house expertise is not available, the planning authority should consider having a peer review of studies at the expense of the proponent.</p> <p>Technical guidance on preparing compatibility studies addressing noise, dust and odour is provided in Appendix B. Although this Guideline focuses on noise, dust and odour, the planning authority can and should require the proponent to avoid, minimize and mitigate any other relevant adverse effects that may exist (e.g. other air contaminants, toxins, traffic). The planning authority can also, at their discretion, undertake or require broader studies outside of a site-specific study, such as regional or cumulative impact modeling. This could be appropriate if there are multiple existing major facilities or multiple proposals for potentially incompatible development in a regional area, and the planning authority may want to assess impacts on an area-wide scale.</p>	<p>Based on this, from a Development Planning perspective, we must be satisfied with the Land Use Compatibility study that is submitted with an application and not make revisions a condition of approval.</p>

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<p>Section 2.7 provides a list of the documentation that is required to be included as part of compatibility studies. Some of the information required for completing compatibility studies may not be accessible to the proponent due to its proprietary nature or if a major facility or sensitive land use is not able or willing to share the information. In such cases, the compatibility study should note the deficiencies in information, and make conservative estimates for the separation distance and mitigation measures to minimize and mitigate potential adverse effects to sensitive land uses or impacts to major facilities. The planning authority should use its discretion to ensure that the information provided is sufficient to justify the conclusions of the compatibility study and if not, require revision to address any noted deficiencies or if unsatisfactory, be rejected.</p> <p>Proponents should also carry out pre-consultation with the planning authority to discuss the application and compatibility study requirements, including potential impacts to be considered and potential information sources. Proponents must also share information and contact major facilities or sensitive land uses (depending on the proposal) based on the AOI to inform the compatibility study. Information sharing, engagement and consultation is discussed in Appendix C.</p>	
<p>2.7 General Documentation in Compatibility Studies</p>	
<p>In addition to the required technical components of compatibility studies (Appendix B), the following general documentation should be provided as part of required compatibility studies. The information may be integrated as part of technical compatibility studies done specifically for noise, dust, odour or other contaminants or kept as a stand-alone “general documentation” piece. For proponents of major facilities, the study area would be the AOI. For proponents of sensitive land uses, the study area should be large enough to include all the major facilities that capture the proposed sensitive land use in their AOIs.</p> <p>i. A general site description of the study area, including the nature of any land uses within the area (e.g. numbers of units, size, type).</p> <p>ii. Detailed mapping and descriptions showing the following:</p> <ul style="list-style-type: none"> • For proposed sensitive land uses: <ul style="list-style-type: none"> ○ the nature of the proposed sensitive land use; ○ all existing and planned major facilities in the study area; and ○ the separation distance between the proposed sensitive land use and existing and planned major facilities, including whether the proposed sensitive land use is captured within any AOIs and MSDs. • For proposed major facilities: <ul style="list-style-type: none"> ○ the nature of the proposed major facility; ○ all existing and planned sensitive land uses in the study area; and ○ the separation distance between the proposed major facility and existing and planned sensitive land uses, including whether any sensitive land uses are captured within the MSD. <p>iii. Relevant excerpts from the OP and/or zoning by-law for properties in the study area, including vacant property designations or zoning, to indicate the full range of permitted uses and enable a complete assessment of potential impacts.</p> <p>iv. Classification of the major facilities within the study area according to the procedure described in Section 2.2 and Section 2.3.</p> <p>v. Description of the engagement completed with residents or major facility owners within the study area, including who was contacted, how they were contacted, what opportunities were provided to provide input into the proposal and how the input was incorporated into the compatibility study.</p> <p>vi. The assessment(s) of the adverse effects being generated by each major facility and for proposed sensitive land uses, potential impacts to major facilities, including:</p> <ul style="list-style-type: none"> • how the potential adverse effects may impact sensitive land uses within its AOI informed by required technical assessments (Appendix B provides specific guidance to assess noise, dust and odour impacts); and 	<p>The information listed in this section should be made clear to applicants, that we expect all of this to be incorporated into Land Use Compatibility studies.</p>

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<ul style="list-style-type: none"> • possible operational impacts (e.g. ability to expand) on existing or planned major facilities, where applicable. <p>vii. For each major facility within the study area, provide information that informed the assessment(s) of adverse effects, such as:</p> <ul style="list-style-type: none"> • the duration, timing and types of operational activities, shipping, receiving and other transport activities, and outputs/contaminants associated with major facilities; • the hours of operation/normal use periods for sensitive land uses • design details and number, type and location of windows and doors in sensitive land use buildings; • wind patterns (predominant winds, wind roses), topography and natural and man-made barriers/buffers (e.g. elevation, vegetation, walls, berms, ground and surface water) in the study area; • any existing complaint history (where available) associated with the operation of the major facility (or major facilities) which would impact sensitive land uses, and any actions undertaken to address the concerns. <p>viii. Description of proposed mitigation measures to address potential adverse effects or impacts, if required (see Section 3), when they will be implemented, and ongoing maintenance requirements. This should include a description of the extent to which a proposed development and associated mitigation may require future permissions or other authorizations from the Ministry or other ministries, such as an ECA or an EASR.</p> <p>ix. Conclusions, including the following:</p> <ul style="list-style-type: none"> • Whether the proposed sensitive land use is expected to experience adverse effects from the nearby major facilities, the proposed major facility is expected to have adverse effects on the nearby sensitive land uses, or the proposed sensitive land use is expected to have impacts on nearby major facilities. • A recommendation of whether the proposed development should move forward based on the analysis completed in general documentation and technical studies. • A proposed separation distance from the proposed use to the major facilities or sensitive land uses within the study area, whichever is applicable, and within which adverse effects or impacts would not be expected. This should be provided both without mitigation measures and, if any are necessary, with proposed mitigation measures implemented. 	
<p>2.8 Demonstration of Need</p>	
<p>A demonstration of need is an assessment that determines whether there is an identified need for the proposed use in the proposed location and evaluates alternative locations for the proposed use if avoidance is not possible. This assessment is only required for proponents of sensitive land uses.</p> <p>A demonstration of need is required to be carried out by a proponent of a sensitive land use when:</p> <ul style="list-style-type: none"> • a new sensitive land use is proposed within a major facility's AOI and mitigation measures would be needed to ensure no adverse effects or potential impacts; or • a new sensitive land use is proposed within a major facility's MSD (regardless of whether mitigation measures are assessed to be needed or not). <p>The information required to be reported in a demonstration of need must accompany the compatibility study and can be included as part of existing municipal planning documents such as planning justification reports.</p> <p>The planning authority must review the demonstration of need provided by the proponent and must be satisfied that the report is complete and with the analyses and conclusions presented. In respect of the demonstration of need, and in addition to the other compatibility tests associated with approving a proposal, the planning authority must only permit the proposal if they are satisfied that there is an</p>	<p>Why does the demonstration of need not apply to expanding sensitive land uses?</p>

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<p>identified need and sound planning rationale for the proposed use in that location, and that alternative locations or areas for the proposed use have been evaluated and there are no reasonable alternative locations or areas.</p>	
<p>The demonstration of need should include the following:</p> <ol style="list-style-type: none"> 1) Demonstrate that there is a need for the proposed use in that particular location. This includes answering the following questions: <ol style="list-style-type: none"> a. Do policies and objectives in the planning authority’s applicable planning documents (such as OPs) and relevant provincial policies and plans (e.g. PPS, A Place to Grow) support locating the use in the proposed location? For example, consider policies/objectives related to complete communities, housing diversification, and community amenities. b. Are there demographic considerations, such as expected land supply, housing strategy, and forecasted growth or growth targets in population or employment, that would support the use in the proposed location? c. How will the proposed use, in its proposed location, support the community or other existing uses in the area? For example, does it provide necessities for daily living, including an appropriate mix of jobs, local stores, and services, a full range of housing and transportation options and public service facilities? d. Are there community amenities and infrastructure (i.e. transportation, servicing) available to support the use? e. Is the proposed use to be located within a designated strategic growth area which by nature should include multiple types of uses, such as an MTSA (within the Greater Golden Horseshoe growth plan area) or nodes and corridors generally? 2) Identify other locations in the municipality that have been designated and zoned specifically for this use and explain why they have not been chosen for the proposed use. 3) Provide a list of at least two alternative locations that have been considered outside of the major facility’s AOI and for each, discuss whether they would be appropriate for this use as compared to the preferred location. This discussion should address the same questions presented in #1a-e. 4) Identify other potential uses for this particular site that would not be considered incompatible and explain why they have not been chosen for the proposed location. 5) The conclusion of the demonstration of the need should discuss why the proposed use in the proposed location is the best option, having considered the answers to the questions presented in #1a-e. 	<p>Question #3 states that the demonstration of need needs to provide a list of “at least” two alternative locations that have been considered outside of the major facility’s AOI. What determines how many alternative locations should be explored, or will this be the responsibility of the proponent to identify in the report?</p> <p>Anticipating that we will run into constraints that are similar to our expansion policies for legal non-conforming uses in the agricultural area; the landowner owns the land they want to use for the expansion, given that they already own the land, it wouldn’t make sense for them to purchase land elsewhere. Are the listed points for demonstration of need strong enough to ensure that the previously mentioned scenarios are not permitted or encouraged? How does a landowner owning adjacent property, that may encroach on an industrial use, result in good planning practice?</p>

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	<p>Note: unless the proposal relates to an expansion of an existing use, current ownership of property is not a factor that should be considered within the demonstration of need.</p>	
u	Decision Tree for Land Use Compatibility	

The following figure is a visual representation of the process outlined in Section 2.5.

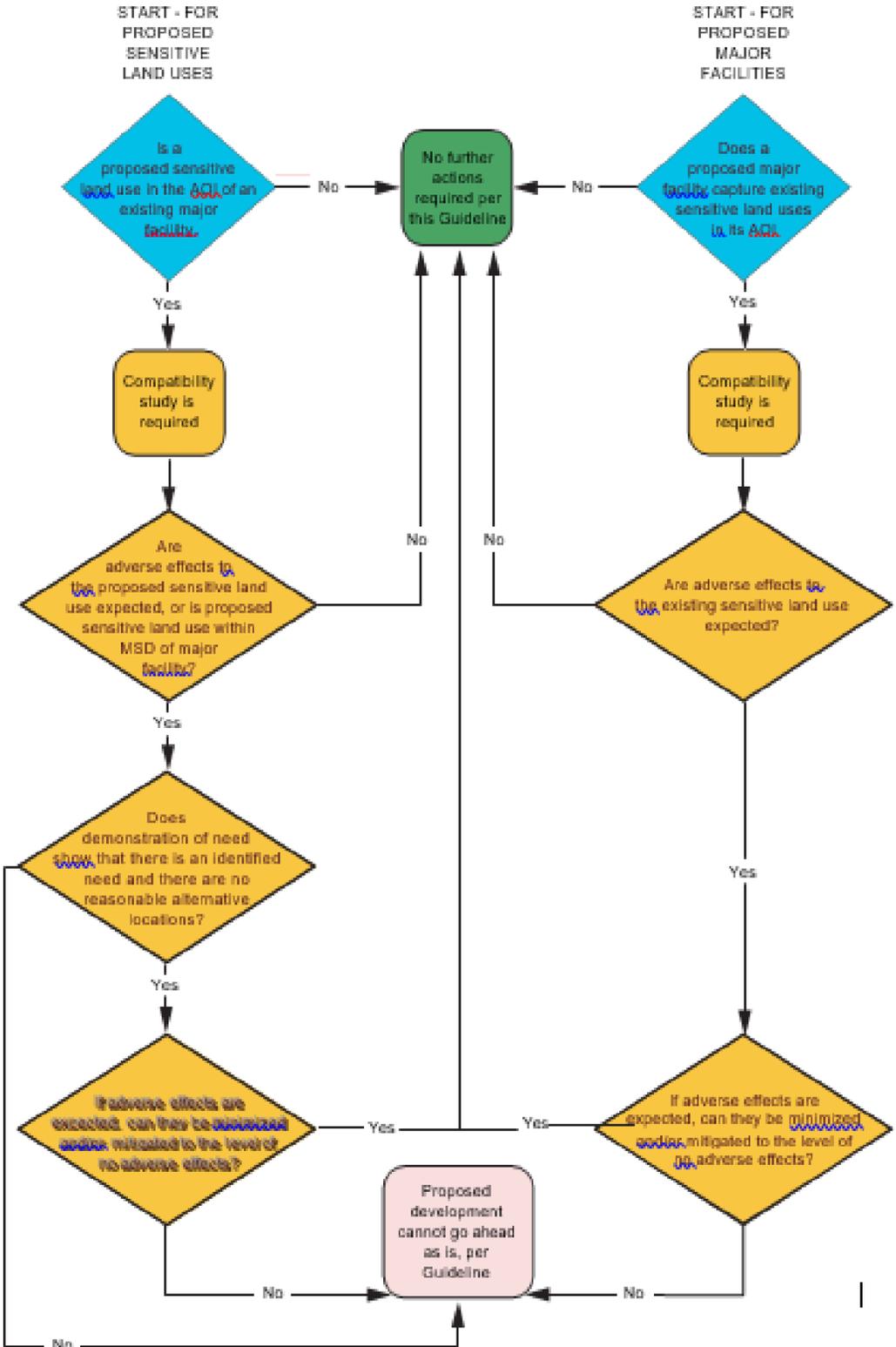


Figure 5 – Decision tree for land use compatibility.

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3	Mitigation	
	<p>Avoidance, through separation of land uses, is the preferred approach to prevent land use compatibility issues and must be used wherever possible to avoid land use compatibility impacts. In many situations, including most greenfield development and outside settlement area situations, it is expected that separation can be achieved. As per policy 1.2.6.1 of the PPS, where avoidance is not possible, and potential impacts are minimized as much as possible through separation, mitigation measures for adverse effects will be needed in order for a proposed development to go forward. Mitigation measures are methods that can be used to prevent adverse effects arising from a major facility after separation has been maximized.</p> <p>The type of mitigation required will depend on the type and severity of potential adverse effect(s) as well as operating requirements of the facility. This section provides information on the types of mitigation that could be used to address compatibility issues between land uses.</p> <p>Mitigation measures will likely require discussions and negotiations between the proponent of a sensitive land use and the major facility. Planning authorities can facilitate discussions between the proponents of development (sensitive land uses or major facilities) and existing property owners/operators. The discussions should focus on:</p> <ul style="list-style-type: none"> • Can the sensitive land use be introduced subject to mitigation? 	<p>What qualifications/training would permit a planning authority to make determinations of what types of mitigation should be put in place?</p>

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	<ul style="list-style-type: none"> • What type(s) of mitigation should be put in place? • Who has responsibility for ongoing inspection and upkeep of mitigation measures as needed? • Who will pay for the mitigation measures? • How will implementation of mitigation measures form part of planning approvals or other legal agreement? 	
	<p>It is the proponent's responsibility to demonstrate the effectiveness of any proposed mitigation measure to the satisfaction of the planning authority. Planning authorities should also ensure that any mitigation measures put in place are in compliance with provincial requirements.</p> <p>An assessment of the different types of recommended mitigation measures (if needed) to minimize and mitigate adverse effects to sensitive land uses from major facilities must form part of a compatibility study. Where appropriate, proponents should begin discussing possible mitigation measures with affected landowners, planning authorities and relevant provincial staff early in the planning process. Part of this assessment could include a scan of mitigation measures being used at similar major facilities and which have been determined to be effective.</p> <p>The below sections provide discussion on mitigation, and examples of it, but technical documents including NPC-300, Environmental Noise Guideline–Stationary and Transportation Sources–Approval and Planning, and the draft Odour Guideline provide additional considerations and examples.</p>	
3.1	At-Source Mitigation	
	<p>Mitigation at-source is mitigation that is used at a major facility to decrease adverse effects from its operations. Mitigation at-source is typically more effective than mitigation at-receptor.</p> <p>Examples of at-source mitigation can include:</p> <ul style="list-style-type: none"> • installation and maintenance of emission mitigation equipment such as: <ul style="list-style-type: none"> ○ filters on exhausts to reduce air emissions; ○ air scrubbers to reduce air emissions; and ○ silencers to reduce noise; • process or chemical changes for manufacturing facilities; • enclosures for outdoor operations to reduce off-site noise, dust and odour; • orientation of new buildings to reduce noise and mitigate bright lighting; • physical placement of outdoor operations away from sensitive land uses to reduce adverse effects; • installation of vibration pads to reduce vibration from stamping presses and forging hammers; and 	

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	<ul style="list-style-type: none"> • installation and maintenance of emission mitigation equipment such as filters on exhausts to reduce air emissions. 	
3.2	Operational Mitigation	
	<p>Operational mitigation is a type of at-source mitigation which includes changes made to a major facility's existing operations to reduce adverse effects.</p> <p>Examples of operational mitigation can include:</p> <ul style="list-style-type: none"> • wheel washing stations to reduce fugitive dust; • limiting noisy operations to day-time hours; • use of alternate truck routes; • outdoor storage of waste materials in closed containers; and • broad band reverse warning alarm systems for trucks reversing. 	
3.3	At-Receptor Mitigation	
	<p>At-receptor mitigation refers to mitigation that would minimize and mitigate adverse effects at the receptor and is located at the sensitive land use (e.g. an acoustic barrier on residential lands, triple-glazed windows, etc.). This type of mitigation is dependent on long-term maintenance by individual owners or operators of a sensitive land use. Where at-receptor mitigation is proposed, long-term maintenance should be ensured.</p> <p>It should be recognized that these individuals may not have been part of planning decisions and may not be aware of the importance of this mitigation to minimize adverse effects. For this reason, where at-receptor mitigation is used, it is recommended that warning clauses or notices on title be registered to inform future buyers of the potential for adverse effects and the need to maintain the mitigation (for more information on warning clauses, see Section 4.3.2 of this Guideline).</p> <p>At-receptor mitigation may be implemented on the property of the receptor or directly on a building.</p>	

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	<p>Examples of at-receptor mitigation include:</p> <ul style="list-style-type: none"> • building orientation to direct exposed areas away from source; • laying out the site such as that receptor is furthest away from source; • at-property berm/acoustic barrier; • enclosed areas that act as noise buffer; • acoustic barriers on building; • fixed/inoperable windows; • restriction to rooftop gardens/terraces; • protection of indoor air quality through centralized heating/air conditioning systems with air intake appropriately located away from odour sources; • individual heating/air conditioning systems associated with each residential unit equipped with carbon filters; and • locating air intakes well above grade. <p>At-receptor mitigation is not recognized by the Ministry to mitigate odour and dust impacts. However, at-receptor mitigation is recognized by the Ministry as mitigation for noise only in the ECA application review process if the area is designated as "Class 4" under NPC-300.</p>	
3.4	Buffers	
	<p>Buffers are a mitigation measure which involves a barrier used to prevent or minimize the adverse effects of incompatible land uses. Note that buffers which may be satisfactory for the control of noise may not be adequate for dust, odours, or gaseous air contaminants. A berm or wall may have little or no effect on these, and distance is often the only effective buffer.</p> <p>It should be noted also that narrow strips of plantings, trees or shrubs, and privacy fences may have little or no actual effect with regard to the reduction of noise or air pollution. These buffers may provide limited benefit, however, through screening the source from view and lessening the perceived impact.</p> <p>Examples of buffers include:</p> <ul style="list-style-type: none"> • fences and walls; • berms; • vegetation/landscaping/treed areas; • parking lots; and a land use that is different from the two conflicting ones but compatible with each of them. 	
3.5	Phasing	
	<p>In some cases, phasing or sequencing of development may be able to mitigate adverse effects between users. If a major facility will be changing to operations with fewer and/ or less impactful effects or relocating, development may be approved sequentially. If possible, development approvals could be timed so that sensitive land uses closest to a major facility are not developed until after the operation has changed or moved.</p>	
3.6	Effectiveness and Limitations of Mitigation Measures	

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<p>Mitigation measures are specific to the current major facility and sensitive land use, and are to be based on the facility's scale and design, and the duration, frequency and the type of discharges/impacts.</p> <p>To be effective, the mitigation measure should be appropriately designed, constructed and maintained, bearing in mind the overall intended purpose. The measure should permit the normal functioning of the two incompatible land uses without conflict.</p>	
<p>3.7 Requirements for Mitigation</p>	
<p>When mitigation is required to meet the land use compatibility requirements of the PPS and A Place to Grow, legal requirements to have mitigation implemented, and then maintained as necessary, should be in place. The legal requirements must apply to the person responsible for implementation and any costs (if applicable), and if necessary, ensure maintenance for any required mitigation measures in the long-term. Typically, legal requirements would be addressed through agreements and conditions applied directly on a given land use planning approval.</p> <p>For a range of planning approvals, conditions with respect to mitigation can be applied as pre-approval conditions. Further, in many cases, a legal agreement can be used to apply conditions that would be fulfilled following approval, including maintenance of mitigation measures. A range of legal agreements are possible under the Planning Act, including agreements entered into as part of a condition on the approval of plans of subdivision, plans of condominium, consents/severances, site plan control, and the issuance of a permit under the Community Permit Planning System (CPPS). Planning authorities are responsible for ensuring available approvals and agreements can ensure implementation and maintenance of mitigation measures. See Table 4 for more general discussion on the use of planning approvals in land use compatibility.</p> <p>It is possible that not all of the mitigation measures that will ultimately be needed will be confirmed or implemented at the planning approval stage. In these situations, when the planning authority is reviewing the proposed development, if any necessary mitigation measures are not confirmed on the basis of a planning approval, the planning authority should still be satisfied that the mitigation is feasible and will be addressed through a later approval (e.g. ECA if applicable). Note that the use of a subsequent ECA as a mechanism for mitigation would only apply in relation to a proposal for a major facility and to require at-source mitigation implemented by a major facility subject to an ECA. A new or amended ECA cannot be assumed in relation to a planning approval for a new sensitive land use.</p>	
<p>Where mitigation measures are proposed to be implemented by a party other than the proponent of a proposal to enable that proposal to proceed, implementation of those measures should be complete as a condition of approval, and if necessary, agreements should be in place to ensure operation measures are implemented and to ensure all measures are maintained. It is a best practice to consider three party agreements (major facility, sensitive land use, and planning authority) where appropriate.</p> <p>In some cases, agreements must be able to bind subsequent landowners (be registered on title) to ensure ongoing implementation of measures. Agreements may also be used to achieve the placing of warning clauses on title where, for example, ongoing nuisance effects may be expected at a property (see Warning Causes in Section 4.3.2).</p>	

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<p>Agreement(s) must be legally enforceable, signed by key parties, and should:</p> <ul style="list-style-type: none"> • Outline the short-term and long-term responsibilities of each party (e.g. developer, major facility, planning authority etc.), including but not limited to financial and operational responsibilities. • Only assign responsibilities for fulfilling conditions to parties that are signatories to the agreement. • Outline responsibilities for obtaining planning approvals and ECAs (and other environmental permissions) that may be needed. • Outline who is responsible for undertaking the studies and associated costs for the approval applications, studies (including hiring qualified individuals), mitigation measures, monitoring, etc. • Provide for registration on title, as necessary, to bind subsequent property owners, and to provide for warning clause to be placed on title as necessary. • Outline responsibilities and expectations for consultations between parties and with the public. • Safeguard any confidential information from the facility that may be required. • Provide confirmation in writing that any required mitigation measures are implemented and maintained, and a description of how mitigation measures will be implemented and maintained. • Be adaptable to future change, such as in situations where business operations at a major facility change and there is a need for new mitigation measures. 	
<p>3.8 Compliance</p>	
<p>Planning authorities and the Ministry have roles in ensuring compliance with conditions of planning approvals and environmental permissions, respectively. The EPA gives the Ministry the authority to respond to concerns about impacts from land use compatibility issues (i.e. potential adverse effects) as appropriate. A risk-based approach* is used by the Ministry to address known and potential violations of the law and risks to the environment or human health. Per its compliance framework, the Ministry may refer incidents related to compatibility issues that stem from planning decisions to a more appropriate level of government or agency (e.g. municipality).</p> <p>It is important to note that after a major facility has obtained its necessary planning approvals to be located in an area that may be close to a sensitive land use (e.g. a residential development), or vice versa where a sensitive land use was approved close to an existing facility, the tools available to the Ministry to deal with discharges of contaminants from that facility, as well as technical solutions may be limited. For example, when responding to a complaint from residents situated close to such a facility, the Ministry may only require the facility to take compliance actions to reduce</p> <p>the discharge of a contaminant where it is reasonably believed action is required to bring the facility into compliance with the EPA. If the Ministry determines that a major facility is in compliance with all ministry requirements and standards under the EPA and the major facility is using available technology to mitigate potential impacts, additional compliance actions may not be possible or required. This may result in a situation where the sensitive land use has to co-exist with minor impacts from the major facility over the long-term and subsequent complaints about adverse effects (e.g. noise, dust and odour) may be directed to the municipality.</p>	
<p>In relation to existing major facilities that may be receiving complaints, a key responsibility of major facilities is effective responses to complaints. For all major facilities, when there are complaints, the major facility should respond in a way to help prevent potential need to revise an environmental permission (if applicable) or be subject to compliance from either the Ministry or municipality.</p> <p>* For more information on the Ministry's approach to compliance and enforcement see Compliance Policy: Applying Abatement and Enforcement Tools.</p>	

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PART C:	Incorporating Land Use Compatibility into Planning Tools	
4	Implementation and Planning Tools	
	<p>Planning authorities must implement the policies related to land use compatibility and employment areas of the PPS and similar policies in A Place to Grow (see Appendix A). This section provides information on how to incorporate land use compatibility policies and approaches into various existing tools and approvals under the Planning Act and other legislation, including through OP policies and designations, secondary plans, zoning by-laws and other planning approvals. Planning authorities will need to integrate land use compatibility, protection of employment areas (which are recognized as having value for employment), and development and intensification in implementing these policies.</p>	
4.1	Planning Tools	
	<p>Table 4 describes how key tools under the Planning Act can be used to enable land use compatibility. The purpose of Table 4 is not to provide foundational information on how land use planning approvals work. For guidance on this, see the Citizen’s Guides to Land Use Planning and other materials developed by MMAH.</p> <p>To the fullest extent possible, land use compatibility issues should be reconciled at the OP and zoning stage. It is expected, generally, that there is opportunity to avoid incompatible uses when planning for future industrial employment areas and surrounding non-employment uses. While conditions related to land use compatibility and mitigation can be integrated as part of the approval process for site-specific planning tools (such as plans of subdivision), decisions on these types of applications are usually one of the last steps of the planning process, before a building permit may be given. Accordingly, zoning which is done earlier in the land use planning process, should be used as much as possible to ensure potential adverse effects are avoided and minimized.</p>	
4.2	Overarching Mechanisms and Considerations	
4.2.1	Complete Planning Application Requirements	

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	<p>In addition to the minimum planning application requirements set out under regulations under the Planning Act, municipalities and planning boards can establish their own list of additional information or material required for land use planning applications, including OPAs, zoning by-law amendments and subdivision, condominium and consent applications. When a municipality/planning board requires additional information as part of a complete application, this must be identified in OP policies.</p> <p>Planning authorities must identify compatibility studies (and a demonstration of need, where applicable, required in relation to a proposed sensitive land use, see section 2.8) to be submitted as part of a complete land use application for the development of new sensitive land uses or new/expanding major facilities within an AOI. Within the MSD, studies are even more important, and mitigation would be expected in many cases.</p> <p>Proponents should review this Guideline and consult with planning authorities and other relevant agencies when considering a Planning Act approval involving new sensitive land uses or new major facilities. Part of this early consultation should include a discussion of what may be required to evaluate the compatibility of the proposal with existing and planned uses in the AOI. Mapping, for example, that includes existing and former land uses with potential compatibility issues (e.g. active and closed landfill sites) would be a key tool to avoid locating major facilities or sensitive land uses where compatibility may be an issue.</p> <p>Planning authorities typically provide and often publish online pre-application checklists for proponents to ensure that their application has considered legislative and regulatory requirements. This would be an appropriate place to list compatibility studies.</p>	
4.2.2	Transitional Land Uses	

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<p>Transitional land uses are land uses that are compatible with major facilities and sensitive land uses and can be located between the potentially incompatible uses and buffer any impacts between them.</p> <p>Planning for transitional land uses is required by PPS policy 1.3.2.3, which indicates that employment areas planned for industrial or manufacturing uses should include an appropriate transition to adjacent non-employment areas.</p> <p>Accordingly, transitional land uses should be planned for where needed as part of developing or amending an OP, secondary plan or zoning by-law. The designation and zoning of appropriate transitional land uses should be considered irrespective of whether an on-site buffer area is used as part of the separation distance.</p> <p>To the fullest extent possible, existing or proposed heavier industrial uses should be buffered from existing or proposed sensitive land uses by lighter industrial uses, rights of way, and other land uses that may not be sensitive in that context (e.g. warehousing, various commercial uses that relate to types of industries or the neighbouring lands, and roads). Buffering should allow for sensitive land uses to be located outside of the AOI to the fullest extent possible. If there is intention to use commercial or office uses as a transitional land use, a qualified individual should be hired to determine if such uses can be considered a transitional land use.</p>	<p>What should be considered when determining whether commercial or office uses are appropriate as a transitional land use? This isn't clearly identified.</p>
<p>4.2.3 Considerations for Infill and Intensification Scenarios</p>	
<p>It is recognized that locating sensitive land uses outside AOIs and MSDs may be more complicated to achieve in areas undergoing infill and intensification, including areas planned for mixed-use development, such as MTSAs as defined in A Place to Grow. In these scenarios, compatibility still needs to be addressed and it is important that the key direction and recommendations of this Guideline are followed (e.g. use of mitigation as needed), including the following:</p> <ul style="list-style-type: none"> • Ensuring that OP policies and zoning by-laws are up-to date, clearly factor compatibility into designations and permitted uses, and require compatibility to be addressed. • An area-based approach to planning, including the use tools such as secondary plans, is encouraged to resolve potential compatibility issues through broader planning processes, instead of individual planning applications. • The zoning is use-specific (i.e. only the existing or proposed industrial or sensitive land use is permitted), or planning considerations are based on the "worst case scenario" based on permitted uses in the industrial zoning by-law. • Within employment areas, keep major facilities separated from other employment uses, and any sensitive land uses should only be permitted mixed with low-impact employment uses and where compatibility can be achieved. Note that per PPS policy 1.3.2.3, within employment areas planned for industrial or manufacturing uses, planning authorities shall prohibit residential use and prohibit or limit new sensitive land uses that are not ancillary to the primary employment uses. Any sensitive land uses in these areas continue to be subject to compatibility policies requiring adverse effects to be avoided or minimized and mitigated, and impacts on major facilities to be avoided. • Holding by-laws and interim control by-laws are used, if needed. These can be relevant in areas of intensification and infill because they can hold development until compatibility studies are completed and/or mitigation (as needed) is undertaken. • When industry is being phased out as part of a large-scale plan (e.g. a secondary plan to transition from historical industrial areas to other uses), redevelopment and/or infilling should be staged to coincide with the closure of those industries which create a significant impact on the proposed sensitive land use(s). 	<p>This potentially would impact the expansion of any facilities e.g. landfills, as population and number of homes grows.</p>

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	<ul style="list-style-type: none"> • Planning is done for transitional land uses per PPS policy 1.3.2.3. Lighter industrial uses would ideally be in proximity to heavy industrial uses, instead of sensitive land uses. • The cumulative effects of development are considered. For example, considering the potential implications of approving an additional industrial use near existing sensitive land uses may have a cumulative impact on the existing sensitive land uses. • Long-term monitoring and maintenance/replacement requirements for required mitigation measures should be in place. In infill and mixed-use areas, land use compatibility may only be possible through coordinated, implemented and maintained mitigation. Compatibility will be lost if mitigation is not maintained. • Use of municipal by-laws (e.g. noise by-laws) as an effective means of addressing unplanned nuisance impacts. <p>Information sharing and engagement are particularly important in infill and intensification areas. See Appendix C for more about information sharing and consultation.</p> <p>A Place to Grow provides some flexibility in considering employment area conversion when located in a MTSA. Policy 2.2.5.10 indicates that notwithstanding policy 2.2.5.9, which requires proposed employment area conversion to be assessed as part of municipal comprehensive review, areas may be converted to non-employment uses, even if they are in a provincially significant employment zone, if part of the employment area is located within a MTSA as delineated in accordance with subsection 2.2.4 of A Place to Grow. Note that only those portions of an employment area within an MTSA would be subject to this flexibility.</p> <p>In spite of this increased flexibility, other employment area conversion policies of A Place to Grow, including policy 2.2.5.9d (which then triggers 2.2.5.8, which relates to land use compatibility) still apply. Accordingly, policy tests to ensure land use compatibility still need to be met.</p>	<p>In terms of long-term monitoring, there needs to have provisions for monitoring or it would need to be removed or amended in the ECA.</p>
4.3	Additional Mechanisms to Support Compatibility	
	The following mechanisms are not implemented under the Planning Act but can also be used to foster land use compatibility.	
4.3.1	Municipal By-laws	
	<p>By-laws under the Municipal Act are an important part of a municipality's toolkit to respond to land use compatibility issues. Section 129 provides authority to municipalities to develop by-laws in response to noise, vibration, odour, dust and outdoor illumination. Municipalities are encouraged to develop and update by-laws as necessary. The onus is on the municipality to enforce by-laws that would prevent and respond to land use compatibility issues.</p> <p>In various by-laws, restrictions such as noise limits may be lower in industrial areas and other areas designated for employment. For these reasons, in communities where major facilities and sensitive land uses may have land use conflicts, including in areas undergoing infill and intensification, by-laws should be used in addition to the other mechanisms noted above.</p> <p>While municipalities bear primary responsibility for their by-laws, NPC-300 provides guidance that may help with creation of noise by-laws.</p> <p>In relation to odour, MECP's draft Guideline to Address Odour Mixtures in Ontario may be helpful.</p> <p>Regarding dust, municipalities are encouraged to consider the elements of the Ministry's Technical</p>	

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	<p>Bulletin: Management Approaches For Industrial Fugitive Dust Sources when developing relevant by-laws.</p>	
4.3.2	Warning Clauses	
	<p>Warning clauses should be used where there are effects expected post-mitigation that may cause nuisance to receptors within the AOI. When new development is expected to generate compatibility issues with existing major facilities, in addition to addressing this through the other means described in this document (e.g. compatibility studies, separation and mitigation if necessary), the Ministry recommends that a warning of anticipated nuisance effects be included in any offers of purchase and sale. The planning authority would need to require this as a condition of approval of a plan of subdivision or a condominium declaration; and once the parcels of land are sold individually, conditions should be included in agreements of purchase and sale and possibly lease/rental agreements.</p> <p>Direction on the use of warning clauses should be included in agreements (such as subdivision agreements) that are registered on title to the lands in question; it is appropriate to do this as part of the subdivision and condominium approval processes. After that, title searches done by lawyers should reveal warning clauses. This will notify potential future purchasers of property of the presence of a major facility in the area and the possibility of adverse effects as a result. Additional information on registering warning clauses on title can be found in the document: 2009-04 Environmental Warnings and Restrictions.</p> <p>NPC-300 gives additional guidance regarding warning clauses for noise and should be followed for the development of these clauses for noise. For example, when a Class 4 designation is used, NPC-300 gives additional guidance and wording. See NPC- 300, section C8, for further discussion on warning clauses and sample language. For example, Warning Clause Type E is applicable to a sensitive land use when it is located within the AOI of a major facility. Warning Clause Type F is applicable to a proposed sensitive land use when it is located in a Class 4 Area.</p>	
	<p>Warning clauses are useful but should not be used in replacement of other mechanisms described above, as they have drawbacks. The Ministry would also not consider warning clauses to be a mitigation measure, since they do not minimize or mitigate impacts, but communicate the possibility of impacts. There have been situations where warning clauses are disregarded or not properly communicated to property owners (the first property owner and successive property owners) over time. Additionally, warning clauses generally are used only for the first purchaser of a property after a development is built but should be included in every agreement of purchase and sale on a property where concerns persist over time. Compatibility studies should describe the use of proposed warning clauses if they may be needed.</p> <p>For stationary sources of noise, NPC-300 indicates that it is not acceptable to use warning clauses in</p>	

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<p>place of physical noise control measures to identify an excess over the Ministry's sound level limits; warning clauses may still be used and have value, but it is not to be used as justification for exceeding standards</p>	
<p>4.3.3 Inventories</p>	
<p>The Ministry recommends that municipalities and planning boards maintain inventories of the location of all existing, committed and former major facilities within their respective jurisdictions. This information should be provided on some form of scaled map (e.g. OP schedules), and accessible to inform studies, decisions and engagement. The inventory should be used to support the review of planning applications.</p> <p>To support constraint mapping and land use planning generally, planning authorities and proponents are encouraged to look at existing ministry resources, including Access Environment and the Source Protection Information Atlas. Using these map-based tools, planning authorities and proponents can search for information on various permissions, including registrations on the EASR, Renewable Energy Approvals and ECAs issued by the Ministry from December 1999 onward or identify if properties are within drinking water source protection vulnerable areas that may have other restrictions. This would be useful to planning authorities in developing OPs, zoning by-laws and more site-specific mechanisms. As well, information on sites where a record of site condition has been filed can be found through Ontario's Environmental Site Registry.</p>	
<p>Appendix A - Applicable Provincial Policy</p>	
<p>Provincial Policy Statement, 2020 – 1.1.5 Rural Lands in Municipalities</p> <p>1.1.5.6 Opportunities should be retained to locate new or expanding land uses that require separation from other uses.</p> <p>Provincial Policy Statement, 2020 – 1.2.6 Land use compatibility</p> <p>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.</p> <p>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:</p> <p>a) there is an identified need for the proposed use;</p> <p>b) alternative locations for the proposed use have been evaluated and there are no reasonable alternative locations;</p>	

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	<p>c) adverse effects to the proposed sensitive land use are minimized and mitigated; and</p> <p>d) potential impacts to industrial, manufacturing or other uses are minimized and mitigated.</p> <p>Provincial Policy Statement, 2020 – 1.3.2 Employment Areas</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>Employment areas planned for industrial or manufacturing uses should include an appropriate transition to adjacent non-employment areas.</p> <p>1.3.2.4 Planning authorities may permit conversion of lands within employment areas to non-employment uses through a comprehensive review, only where it has been demonstrated that the land is not required for employment purposes over the long term and that there is a need for the conversion.</p> <p>1.3.2.5 Notwithstanding policy 1.3.2.4, and until the official plan review or update in policy 1.3.2.4 is undertaken and completed, lands within existing employment areas may be converted to a designation that permits non-employment uses provided the area has not been identified as provincially significant through a provincial plan exercise or as regionally significant by a regional economic development corporation working together with affected upper and single-tier municipalities and subject to the following:</p> <p>a) there is an identified need for the conversion and the land is not required for employment purposes over the long term;</p> <p>b) the proposed uses would not adversely affect the overall viability of the employment area; and</p> <p>c) existing or planned infrastructure and public service facilities are available to accommodate the proposed uses.</p>	

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<p>A Place to Grow: Growth Plan for the Greater Golden Horseshoe – 2.2.5 Employment under Policies for Where and How to Grow</p> <p>2.2.5.6 Upper- and single-tier municipalities, in consultation with lower-tier municipalities, will designate all employment areas in official plans and protect them for appropriate employment uses over the long-term. For greater certainty, employment area designations may be incorporated into upper- and single-tier official plans by amendment at any time in advance of the next municipal comprehensive review.</p> <p>2.2.5.7. Municipalities will plan for all employment areas within settlement areas by:</p> <ul style="list-style-type: none"> 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. <p>2.2.5.8. 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.</p> <p>2.2.5.9. The conversion of lands within employment areas to non-employment uses may be permitted only through a municipal comprehensive review where it is demonstrated that:</p> <ul style="list-style-type: none"> a) there is a need for the conversion; b) the lands are not required over the horizon of this Plan for the employment purposes for which they are designated; c) the municipality will maintain sufficient employment lands to accommodate forecasted employment growth to the horizon of this Plan; d) the proposed uses would not adversely affect the overall viability of the employment area or the achievement of the minimum intensification and density targets in this Plan, as well as the other policies of this Plan; and e) there are existing or planned infrastructure and public service facilities to accommodate the proposed uses. <p>2.2.5.10. Notwithstanding policy 2.2.5.9, until the next municipal comprehensive review, lands within existing employment areas may be converted to a designation that permits non-employment uses, provided the conversion would:</p> <ul style="list-style-type: none"> a) satisfy the requirements of policy 2.2.5.9 a), d) and e); 	

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	<p>b) maintain a significant number of jobs on those lands through the establishment of development criteria; and</p> <p>c) not include any part of an employment area identified as a provincially significant employment zone unless the part of the employment area is located within a major transit station area as delineated in accordance with the policies in subsection 2.2.4.</p>	
Appendix B -	Compatibility Studies Addressing Noise, Dust and Odour	
	<p>The following sections provide an overview of compatibility studies for noise, dust and odour emissions from major facilities and are based on the Ministry's technical guidance documents. Meeting the standards and requirements outlined in these sections may help mitigate and minimize adverse effects from major facilities to nearby sensitive land uses.</p> <p>If documents referenced in these sections are not available online, they can be obtained by contacting the appropriate ministry District Office. To find contact information for your closest District Office, see: https://www.ontario.ca/environment-and-energy/ministry-environment-district-locator.</p>	
B.1	Noise (Including Vibration)	
	<p>While sound (noise is unwanted sound) and vibration are two separate contaminants under the EPA, vibration is addressed alongside noise in this Guideline. For the purposes of this Guideline, the Ministry-developed AOIs this Guideline should address both noise and vibration impacts (if developed, alternate AOIs should do the same); separation distances for noise are larger than vibration so covering noise impacts will cover vibration impacts.</p>	
	Vibration	

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<p>Setbacks specifically for vibration are addressed through other municipal, provincial and federal guidelines and regulations by organizations including GO Transit, the Canadian National Railway, the Canadian Pacific Railway, the Toronto Transit Commission and the Ministry of Natural Resources and Forestry (in respect of aggregates sites). The requirements of those documents in respect of vibration will prevail if they conflict with this Guideline.</p> <p>These documents related to vibration include but are not limited to the following:</p> <ul style="list-style-type: none"> • The Federation of Canadian Municipalities and the Railway Association of Canada’s Guidelines for New Development in Proximity to Railway Operations which provides mitigation measures associated with development near railway operations, particularly those associated with residential development; • Ontario Ministry of Environment and Energy / GO Transit Draft Protocol for Noise and Vibration Assessment; • Ministry of the Environment and Climate Change/Toronto Transit Commission Protocols for Noise and Vibration Assessment; • Ontario Publication NPC-119 – Blasting; and • Ontario Provincial Standard Specification 120 – General Specification for the Use of Explosives. <p>The above is not an inclusive list of all relevant documents related to vibration. Any applicable provincial documents not in this list will need to be considered and followed as well. To find links for these documents, or information on how to retrieve them, see Appendix J and Appendix K.</p>	
Compatibility Study for Proponents of Sensitive Land Uses	
<p>Under the Environmental Noise Guideline: Stationary and Transportation Sources – Approval and Planning (NPC-300), proponents of noise sensitive land use proposals may be required by planning authorities to undertake feasibility studies and/or detailed noise impact studies. For the purposes of this Guideline, the feasibility study and/or detailed noise impact study would act as the compatibility study for noise. These studies must be able to answer the criteria outlined in Section 2.7 and in this Appendix to the satisfaction of the planning authority.</p>	
Compatibility Study for Proponents of Major Facilities	

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<p>For proponents of major facilities, the compatibility study for major facilities' noise impacts should follow the process outlined in the Ministry's noise screening and guidelines outlined below.</p> <p>Depending on the facility's North American Industrial Classification Standards (NAICS)¹ codes, a range of levels of screening requirements and studies can apply.</p> <p>There are three types of studies that may be used to screen and assess the impact of noise from a facility:</p> <ol style="list-style-type: none"> 1) Primary Noise Screening Method (PNSM) does not require detailed calculations and uses conservative assumptions for potential noise sources at the facility to calculate distances within which additional studies are required. See the Ministry's Primary Noise Screening Method Guide for more details. Steps involved in this are: <ul style="list-style-type: none"> • Identify NAICS code associated with facility and confirm that the PNSM applies. Calculate the separation distance between a facility's noise source and the closest point of noise reception at the sensitive land use. • Determine if beyond the noise screening's separation distance, it is not anticipated that a major facility's noise emissions will exceed noise limits set under the Ministry's noise guidelines (see section on noise limits). • When the facility does not screen out using the PNSM, the Secondary Noise Screening Method or the Acoustic Assessment Report need to be used. 2) Secondary Noise Screening Method is for facilities that are ineligible for the primary noise screening process. It uses calculations and site-specific conditions to predict sound levels at closest points of reception, exceedances of provincial noise limits, and the effectiveness of any proposed mitigation to meet noise limits set under the Ministry's noise guidelines. <p>Studies need to analyze the following: location of the noise sources relative to the point of reception; effect of acoustic barriers that break the line-of-sight; tonality; intermittency of operation; and background noise from major highways/roadways. See the Ministry's Secondary Noise Screening Guide for more details.</p> <p>When the facility does not screen out using the Secondary Noise Screening Method, an Acoustic Assessment Report needs to be used.</p> 3) Acoustic Assessment Report (AAR) is based on detailed noise review of noise sources at the facility and their impacts on neighbouring points of reception. Facilities that require an AAR are those that are not eligible to use the Primary or Secondary Noise Screenings. The ministry has several guidance documents on how to prepare an AAR. These include NPC-103, NPC-104, NPC-233, NPC-300, AAR Check-List, AAR ACME and the Basic Comprehensive Certificates of Approval (Air) User Guide. 	
Noise Limits	

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<p>For either proponents of sensitive land uses and major facilities, in order to meet the test of no adverse effects, provincial noise limits for various noise sources must be met. These are set by the Ministry under various guidelines, including:</p> <ul style="list-style-type: none"> • NPC-300 – this Guideline covers sound level limits applied by the Ministry in ECAs, Renewable Energy Approvals (bioenergy and solar), EAs and the investigation of noise-related incidents; advice for decisions under the Planning Act; sound level limits that may be used for municipal noise control by-laws; and sound level limits which may be applied for aggregate resource extraction licensing and permitting. It does not provide sound level limits for blasting operations, landfills or new or expanded transit corridors, which are addressed in other publications. • Impulse Vibration in Residential Buildings (NPC-207): Vibration impacts from facilities producing impulse vibration (e.g., metal stamping or forging facilities) should be assessed following the methods and noise limits set in this Guideline. • Procedures (NCP-103) and Blasting (NCP-119): the noise and vibration impacts produced by blasting in quarries and mines should be assessed following the methods and noise limits set in these documents. • Air emissions user guide for environmental activity and sector registry (EASR Publication): Refer to the noise chapter in the EASR Publication, which is given in the hyperlink. 	
A note on Class 4 Designations	
<p>For new sensitive land uses, planning authorities have the option to designate future areas as Class 4 areas as per NPC-300. Designating an area as Class 4 would allow proponents to construct new sensitive land uses in that area in proximity to existing, lawfully established and approved stationary sources of noise, to a greater extent than would otherwise be possible.</p> <p>Class 4 areas are defined as an area or specific site that would otherwise be defined as Class 1 or 2 and which is intended for development with new noise sensitive land use(s) that are not yet built; 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.</p> <p>The Class 4 designation is intended for areas where a mix of incompatible uses may be unavoidable or very difficult to avoid, such as areas that are built-out or designated as MTSAs in A Place to Grow. It is not meant to be used where separation of incompatible land uses is possible. It should be used in scenarios where potential encroachment impacts could not be otherwise avoided or mitigated through separation or other mitigation measures. In addition, one or more Class 4 designations should not serve as a precedent for future developments in the same area. Each designation should be considered and treated as a stand-alone case. This approach provides additional flexibility and should be used to address encroachment impacts to enable at-receptor mitigation (at the sensitive land use site), in addition to traditional at-source mitigation (at the major facility site) to address noise emissions without adversely impacting the ongoing operability of the existing facility.</p> <p>Within Class 4 designated areas, potential noise impacts from major facilities which are vulnerable to encroachment are addressed through:</p> <ul style="list-style-type: none"> • Increased permitted noise limits according to NPC-300 for stationary and transportation sources, recognizing increased background noise from nearby noise emitters. 	

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	<ul style="list-style-type: none"> • Allowances for the consideration of at-receptor mitigation measures in a facility's ECA review process. The area must be designated Class 4 and recognized in local planning documents, in order for at-receptor mitigation to be recognized. • The increased sound level limits for Class 4 areas assume that windows can be kept closed with the use of a ventilation system (e.g. central air conditioning). 	
	<p>The following considerations apply to new sensitive land uses proposed in Class 4 areas:</p> <ul style="list-style-type: none"> • An appropriate noise impact assessment should be conducted for the land use planning authority as early as possible in the land use planning process that verifies that the applicable sound level limits will be met. • Noise control measures may be required to ensure the stationary source complies with the applicable sound level limits at the new noise sensitive land use. • Noise control measures may include receptor-based noise control measures and/or source-based noise control measures. • Source-based noise control measures may require a ministry permission. • Receptor-based noise control measures may require agreements for noise mitigation, such as agreements under a planning permission. • Prospective purchasers should be informed that their property is located in a Class 4 area through appropriate means and informed of the agreements for noise mitigation. Registration on title of the agreements for noise mitigation should be required as directed by related permissions (e.g. planning or ministry permissions) , as well as registration on title of an appropriate warning clause to notify purchasers that the applicable Class 4 area sound level limits for this property are protective of indoor areas and are based on the assumption of closed windows. • Any final agreements for noise mitigation as described in NPC-300 and all other relevant documentation are to be submitted to the Ministry by the stationary source owner(s) when applying for a ministry permission. These agreements will be assessed during the review of the application for ministry permissions. Additionally, the stationary source owner(s) are to include a copy of the formal confirmation of the Class 4 area classification from the land use planning authority in the application for a ministry permission. <p>Specific information about Class 4 Areas definition, applicable limits, at-receptor noise control measures and when to apply the Class 4 Area designation are provided in Parts A, B and C of NPC-300.</p>	

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B.2	Dust and Other Air Emissions													
	<p>The operations of some sectors lend themselves to dust and other air emissions from fugitive sources such as on-site roadways, storage piles and on-site traffic (e.g. bulldozers, grading, and parking lots). Adverse effects from these emissions can be assessed through methods explained below.</p> <p>To assess fugitive dust emissions from facilities, the compatibility study for dust should determine and explain how the major facility has met the requirements of Ontario Regulation 419/05: Air Pollution – Local Air Quality, made under the EPA (O. Reg 419/05) through any of the three compliance approaches that are included in the regulation. O. Reg. 419/05 is Ontario’s local air quality regulation, which works within the province’s air management framework by regulating air contaminants released into communities by various sources, including local industrial and commercial facilities.</p> <p>An approved ECA, which may be available on the Access Environment website, would indicate that the major facility is meeting ministry standards for dust at the property line. However, there might still be nuisance dust effects beyond the property line. Due to the potential for these effects, planning authorities should not allow sensitive land uses within the facility’s MSD unless completely unavoidable.</p> <p>The compatibility study should also determine and discuss whether a detailed Fugitive Dust Control Plan or Best Management Practices Plan (BMPP) is available for the major facility. Typically, requirements for a Fugitive Dust Control Plan or BMPP are included as conditions in the facility’s ECA. For more information on these plans, see the Technical Bulletin: Management Approaches For Industrial Fugitive Dust Sources that sets out information on the possible sources and management of suspended particulate matter from fugitive dust sources.</p>													
	<p>Recommendations for Facilities with Potentially Hazardous Fugitive Dust Emissions</p> <p>Certain types of facilities may emit potentially hazardous fugitive dust. These facility types are listed in Table 7-2 of the Guideline A-10: Procedure for Preparing an Emission Summary and Dispersion Modelling Report, below.</p>													
	<table border="1" style="width: 100%;"> <thead> <tr> <th colspan="2">Sectors where metal content within fugitive particulate must be considered</th> </tr> <tr> <th>NAICS Code</th> <th>NAICS Code Description</th> </tr> </thead> <tbody> <tr> <td>2122</td> <td>Metal Ore Mining</td> </tr> <tr> <td>331</td> <td>Primary Metal Manufacturing</td> </tr> <tr> <td>332810</td> <td>Coating, Engraving, Heat Treating and Allied Activities</td> </tr> <tr> <td>332999</td> <td>All Other Miscellaneous Fabricated Metal Product Manufacturing</td> </tr> </tbody> </table> <p>As part of the dust <i>compatibility study</i>, proponents should determine whether the major facility meets one or more of the <u>NAICS</u> codes listed in Table 7-2 of the Guideline A-10: Procedure for Preparing an Emission Summary and Dispersion Modelling Report. If so, it is recommended that the proposed use be built outside the <u>AOI</u> of these major facilities, to avoid potential adverse effects from metal content in fugitive dust.</p> <p>If it is not possible to locate the proposed use outside the <u>AOI</u>, the proponent must obtain a copy of the approved <u>ECA(s)</u> for the major facility to demonstrate to the satisfaction of the planning authority that no adverse effects related to significant dust emissions are expected from the facility.</p>	Sectors where metal content within fugitive particulate must be considered		NAICS Code	NAICS Code Description	2122	Metal Ore Mining	331	Primary Metal Manufacturing	332810	Coating, Engraving, Heat Treating and Allied Activities	332999	All Other Miscellaneous Fabricated Metal Product Manufacturing	
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	<p>Recommendations for Facilities Registered for Technical Standards, Site-Specific Standards or Sector Specific Regulations</p> <p>Certain facilities cannot meet required air standards set out in O. Reg 419/05, so they meet technical standards or site-specific standards instead. There are also some facilities that fall under sector-specific regulations, such as O. Reg. 530/18: Air Pollution–Discharge of Sulphur Dioxide from Petroleum Facilities, made under the EPA (O. Reg. 530/18). As part of the compatibility study, proponents should determine whether the major facility is subject to technical standards, site-specific standards or sector-specific standards.</p>	
	<p>The following resources can be used to determine whether the major facility falls in the categories of technical standards, site-specific standards or sector specific regulations:</p> <ul style="list-style-type: none"> • Technical Standards: • Site-specific standards: Facilities with site-specific standards can be found by searching the Environmental Registry of Ontario. • Sector-specific regulations such as O. Reg. 530/18 can be checked to find the NAICS codes for which sectors are covered under the regulation. <p>It is recommended that any proposed uses be built outside the AOI of these facilities to avoid adverse effects related to significant air quality emissions.</p> <p>If it is not possible to locate the use outside the AOI, the proponent must demonstrate to the satisfaction of the planning authority that no adverse effects related to significant air emissions are expected from the facility. The compatibility study should also consider whether there are cumulative effects from multiple major facilities on the proposed land use. The ministry publishes maps which show the cumulative effects of air quality from multiple air pollution sources. These maps can be found at the following website: . If the proposed land use falls within Action Levels 2 or 3 of these maps, the study should acknowledge these cumulative effects and discuss whether adverse effects are expected and what measures would be taken to mitigate these effects.</p>	
B.3	Odour	
	<p>Odour is a subjective experience and individual responses to odour are highly variable and are dependent on many factors. Generally, the impact of an odour results from a combination of factors collectively known as FIDOL (frequency (F), intensity (I), duration (D), offensiveness (O), and location (L)).</p>	<p>This is a significant issue. Odour is subjective and in some cases it may be difficult to determine its source therefore need to ensure there is a robust system in place to determine and monitor odours.</p>
	Draft Guideline to Address Odour Mixtures	
	<p>The compatibility study for a major facility’s odour impacts should follow the process outlined in the ministry’s draft guideline entitled, ‘Guideline to Address Odour Mixtures in Ontario’ (draft Odour Guideline). While the following highlights some key elements, the draft Odour Guideline should be reviewed for a full understanding. Use of the draft Odour Guideline will help determine the likelihood of causing an adverse effect.</p> <p>As part of the draft Odour Guideline, the ministry has identified several odorous activities and processes and grouped them into 3 tiers based on the potential to cause odour. These tiers are used for ECA applications and in the EASR to determine the level of requirements for major facilities to address any potential odour impacts. Based on the compatibility study, one or more of the following may be required</p>	

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	<p>at the facility before a new proposal or development can proceed:</p> <ol style="list-style-type: none"> 1) Facility Screened Out / No Additional Assessment Required – Based on the compatibility study the major facility can be screened out (i.e. no additional assessment would be required); otherwise, one or more of 2-4 could be required. 2) BMPP for Odour – Less odorous activities may require a BMPP to address potential odours; 3) An Odour Technology Benchmarking Report – More odorous activities may be required to develop an Odour Technology Benchmarking Report to determine the potential odour impacts and mitigation options if required. 4) Odour Mitigation/Minimization Plan – based on the results of the Odour Technology Benchmarking Report, the plan would identify the odour control strategy (ies) selected to minimize and mitigate potential odours, describe any technical requirements, and clarify the responsibility for the costs, implementation and maintenance of the required odour control strategies. <p>It should be noted that the proponent (proposed sensitive land use or proposed major facility) is responsible for any required work associated with this approach. Major facilities should provide information and participate in completing compatibility studies. However, if the major facility does not cooperate, the proponent should consult with the planning authority and still complete required compatibility study and determine if any mitigation is required to the best of their ability. If the planning authority cannot convince the major facility to participate, approaches to resolution outlined in the draft Odour Guideline should be considered.</p>	
B.4	Source of Information	
	<p>Consultation should be undertaken with existing major facilities to obtain information that would better inform the compatibility study and other assessments as described in this Guideline. Major facilities may have the information needed on site layout, design and existing noise, dust and odour control measures. It is expected that this consultation can usually occur concurrently with other information sharing and engagement activities related to compatibility studies.</p> <p>The major facility may have conducted an EA, have ECAs or be registered to the EASR.</p> <p>Documentation and studies supporting EAs, ECAs and EASRs should be used, if available, to gather relevant information on the major facility to inform the compatibility studies for noise, dust and odour as needed. This documentation may also help decide what mitigation measures should be used, and matters related to the ongoing operation of sites after compatibility studies are done and mitigation measures (if needed) are in place. While respecting information that may be proprietary, facilities are encouraged to be involved in the development of documentation and studies, and to share information. This would lead to timelier and more effective reconciliation of land use compatibility issues. Note that the information from any ministry permission/approval may not be up to date. When developing supporting information, proponents should determine whether new information is available and if there is a need to update assessments or studies received from major facilities.</p> <p>Also, note that any assessment developed for ECAs and EASRs may not consider fugitive emissions (e.g. traffic, on-site storage and loading). For odour and noise, previous issuance of ECAs or registration in the EASR will consider impacts to the closest existing or planned sensitive receptor at the time of the permission/approval or registration. As such, new sensitive land uses which result from rezoning will not have been considered and will need to be assessed as part of applying for an ECA or registering on the EASR.</p>	

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B.5	Qualified Individuals	
	<p>Municipal OPs should require that any study carried out to support planning decisions related to land use compatibility (including compatibility studies) be prepared by qualified individuals with experience in preparing technical assessments. Qualified individuals should have the education, experience, training or certification that will qualify them to: conduct the necessary analysis on adverse effects; provide expert opinions; and make recommendations on the subject matter related to avoiding or mitigating the adverse effects.</p> <p>For example:</p> <ul style="list-style-type: none"> • Noise impact studies should be prepared by qualified individuals with experience in environmental acoustics. • Vibration studies should be undertaken by qualified individuals with experience in vibration. • Dust studies should be undertaken by qualified individuals with experience in assessing sources of particulate matter, including fugitive emissions and dust mitigation measures. • Odour compatibility studies should be undertaken by qualified individuals with experience in odour assessment and mitigation. <p>In most cases these reports should be prepared by a licensed engineering practitioner that is a holder of a licence, limited licence, or provisional licence under the Professional Engineers Act.</p>	
Appendix C	Consultation and Engagement for Land Use Compatibility	
	<p>Consultation may be required as part of a number of the processes and approvals described in this document. For example, if an OPA is undertaken, the Planning Act stipulates the minimum public consultation that is needed (or municipalities can also establish alternative notice and consultation provisions). When a sensitive land use is proposed, consultation should involve the planning authority, proponent (i.e. developer of new sensitive land use) and surrounding major facilities with an AOI that the proposed sensitive land use would be located in. If mitigation is required at the facility site, agreements or other legal mechanisms will be needed. Planning authorities can act as the facilitator between parties and place agreements as part of their conditional approval of suitable planning applications.</p>	
	Early Engagement for Proposed Land Use Decisions	
	<p>Pre-consultation has been recommended in this document (see Section 2.6). Planning authorities should include pre-consultation policies in their OPs and are required to participate in pre-consultation if asked.</p> <p>For example, in order to ensure that noise, dust odour and other potential sources of adverse impacts to the facilities have been appropriately assessed and addressed, planning authorities should ensure that proponents of new sensitive land uses have pre- consulted with major facilities within the AOI(s) of those major facilities. It is important that all major facilities are consulted as facility information may be required to determine the extent of potential impacts at the new sensitive land use and minimization and mitigation measures.</p>	
	Engagement to Support Compatibility Studies	

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<p>A complete compatibility study includes information collected from potentially affected existing land uses and from existing emitting operations. Proponents of major facilities should engage all residents and other occupants within the AOI, including other major facilities, sensitive land uses and First Nations and Métis communities. Proponents of sensitive land uses should engage the owners of major facilities whose AOI the proposed sensitive land use falls into. This should include informing residents and occupants of the proposal and compatibility study, providing them an opportunity to provide input into the proposal and compatibility study, and incorporating information and input related to land use compatibility into the compatibility study and its conclusions. These efforts are intended to inform the compatibility study. Multiple forms of notification or contact may be necessary to ensure potentially affected parties are aware of the proposal and provide the information and input they are willing to provide.</p> <p>Overall, early contact between the proposed land use (whether a major facility or sensitive land use) and surrounding land uses is imperative to building understanding and avoiding future impacts and complaints. It will inform the following:</p> <ul style="list-style-type: none"> • common understanding of the proposal, including potential uses, activities and operations; • common understanding of current uses, activities and operations associated with existing uses and planned expansions; • current and planned emissions and mitigation measures associated with existing and already planned uses; • potential types and scale of impacts the major facility may have on the sensitive land use or potential operational impacts or complaints on the major facility; • appropriate separation distances and mitigation measures to mitigate impacts on the major facility or sensitive land use; and • if necessary and appropriate, potential agreements between parties regarding implementation, monitoring and maintenance of any required mitigation measures. 	
Best Practices in Relationship Building	
<p>Maintaining good relations between major facilities and neighbouring land uses is very important. There is a higher likelihood that communities would respond well to proposed nearby development when they are given the opportunity to become familiar with the proposed development or major facility operation and when they are given clear and accurate information.</p> <p>Methods for major facilities to communicate with members of the public include:</p> <ul style="list-style-type: none"> • open houses; • presentations to schools and local groups; • newsletters; • websites; • advisory councils/groups; • social media; • signage in appropriate locations (such as highly visible or frequented areas where landowners are likely to see it); • dedicated points of contact such as a specific staff member or email; and, • one-on-one meetings with landowners where appropriate. 	

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	Indigenous Engagement	
	<p>Proactive engagement with Indigenous communities that may be affected by or interested in a planning or development proposal is recommended, early in the planning or development process, if compatibility is a concern. This engagement should help to inform compatibility studies. This guidance applies to planning authorities as well as proponents, as engagement should be considered as early as the OP stage. This guidance does not alter engagement and/or consultation that may be required through the Planning Act, provincial plans (e.g. A Place to Grow), EAA, or other legislation and regulations, and regardless of those requirements, proponents should always consider the need for engagement to inform compatibility studies.</p>	
Appendix D	Sector-Specific Considerations Included in the Guideline	
	<p>This section provides additional considerations for specific sectors which are within the scope of this Guideline, which have had history of ongoing and frequent complaints. The following sections provide information and an overview of programs that may provide insight into adverse effects from these key sectors.</p> <p>Note that this section provides considerations for adverse effects specifically related to noise, dust and odour emissions. Planning authorities will also need to consider other potential adverse effects, such as the potential for groundwater and surface water contamination, which are not discussed specifically in this section.</p> <p>In addition to the guidance provided below on these sectors, guidance related to land uses near landfills and dumps is provided in Appendix E</p>	
	Composting and Industrial Anaerobic Digestion Facilities	

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<p>Composting and industrial anaerobic digestion facilities use aerobic and anaerobic biological processes, respectively, to break down and stabilize recycled organic matter. In an urban setting these facilities are usually operated to manage organic waste like household organic materials, food processing by-products, and in the case of compost facilities, leaf and yard waste. These facilities have a potential for significant odour impacts on surrounding sensitive land uses. In addition, other potential impacts from animals and insects, dust, litter, lighting and noise may be experienced. Generally, these risks are managed through environmental approvals; however, setbacks can further help reduce impacts. This document provides AOIs and MSDs for composting and industrial anaerobic digestion facilities (see Table 1).</p> <p>For the purposes of this Guideline, composting and industrial anaerobic digestion facilities are understood to not be located on a farm or operated as an agricultural use or agricultural-related use. Farm-based anaerobic digestion or composting often involves the management of agricultural feedstocks like manure, animal by-products, livestock mortalities, or other agricultural materials in addition to mixing off-farm feedstocks like food waste. Farm-based anaerobic digestion facilities are generally sited according to the OMAFRA's Minimum Distance Separation (MDS) Guidelines, or setbacks required in other environmental permissions. Composting facility layout has an impact on the facility's relative impacts. Facilities with outdoor management of organic materials, whether it be feedstock reception, active compost piles, screening, and/or curing piles, may be expected to have significantly more impact than a facility where some or all of these features are indoors. Indoor activities are often subject to air capture and treatment requirements as part of their approval. For more information on considerations for siting composting facilities, please see the Ministry's Guideline for the Production of Compost in Ontario and the Ontario Compost Quality Standards.</p> <p>For industrial anaerobic digestion facilities not located on a farm or operated as an agricultural use or agriculture-related use, the facility's environmental permission/ approval (whether an ECA, or a Renewable Energy Approval under O.Reg. 359/09) often specifies detailed controls for potential causes of adverse impacts. Generally, for these facilities, the feedstock reception areas, materials handling, and effluent storage are located within enclosed structures with odour control. Management of fugitive emissions is key to reducing potential impacts. Other possible sources of impacts may include the biogas flare, cogeneration equipment that generates electricity, and truck traffic.</p>	
<p>Municipal and Private Communal Wastewater Treatment Plants</p>	

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<p>This document provides AOIs and MSDs for three categories of municipal and private communal wastewater treatment plants (see Table 1).</p> <ol style="list-style-type: none"> 1) Wastewater treatment facilities with a rated capacity less than 25,000 cubic metres per day (small), which are considered to be class 1 facilities; 2) Wastewater treatment facilities with a rated capacity more than 25,000 cubic metres per day, which are considered to be class 4 facilities; and 3) Sewage treatment lagoons. <p>For clarity, these AOIs and MSDs would not apply to municipal and private communal wastewater treatments plants that are fully underground/subsurface, e.g. subsurface treatment systems such as septic tanks and fields.</p> <p>The following should be considered for municipal and private domestic wastewater treatment facilities:</p> <ul style="list-style-type: none"> • When taking into consideration Section 2.4 of this Guideline and determining whether the property line or the facility/equipment should be used to determine separation distance, the following elements may support a conclusion that the shorter option may be used: <ul style="list-style-type: none"> ○ Parts of the plant are enclosed (headworks, solids handling/thickening, dewatering systems) ○ Parts of the plant are covered (e.g. primary clarifiers, aerobic digesters, process tanks) ○ Odour mitigation technologies are in place. • Where practical, sensitive land uses should not be placed adjacent to treatment facilities. • When new facilities (or enlargements to existing facilities) are proposed, an adequate buffer area should be acquired as part of the project. There should also be consideration of whether there are policies in local source protection plans that may restrict or prohibit the development in an area identified as a vulnerable area for the purpose of protecting existing and future sources of drinking water. <p>This Guideline is not appropriate for dealing with the effects of major treatment plant upsets due to overloading or equipment breakdown.</p>	
Aggregates	
<p>It is important to plan land uses surrounding aggregate resources in a way that both prevents adverse impacts to sensitive land uses and ensures the long-term protection of aggregate resources. Planning authorities must consider the potential for adverse effects from aggregate operations (including existing, planned and potential future operations), such as traffic to and from the facilities, and noise and dust from blasting, crushing or other operations, for proposals that require a planning approval.</p> <p>This Guideline is prepared with the intent of assisting planning authorities in the implementation of PPS policies 1.2.6.1 and 1.2.6.2. In addition, the PPS recognizes the importance of aggregate resources and PPS policies related to mineral aggregate resources also need to be addressed in a municipal OP and any Planning Act application. For example, policies 2.5.2.4 and 2.5.2.5 direct that any proposed development and activities that would preclude or hinder the establishment of a new mineral aggregate operation, the continuation of an existing operation and any future expansions shall only be permitted subject to requirements. These requirements are in addition to what is recommended in this Guideline. This Guideline provides AOIs and MSDs in Table 1 applicable to new or expanding sensitive land use proposals near existing or planned aggregate operations. The AOI and MSD align with the Ministry's screening and study requirements for ECAs that are required for above-ground aggregate equipment, such as aggregate crushers, ready-mix concrete plants and asphalt plants. However, recognizing that</p>	

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<p>the impacts associated with different aggregate operations may vary, the planning authority may choose to assess whether an alternate AOI for a given aggregate operation is appropriate.</p> <p>The AOI and MSD in the Guideline are not applicable to land use decisions for new or expanding aggregate operations proposed near sensitive land uses. Planning authorities are required to address land use compatibility with respect to new or expanding operations, as required by the PPS. However, when determining whether there may be potential adverse effects from an aggregate operation, planning authorities should also take into consideration that through the licensing process under the Aggregate Resources Act, the Ministry of Natural Resources and Forestry also has requirements to assess potential impacts on existing nearby land uses and whether it is feasible to mitigate potential impacts through that process.</p> <p>Development that encroaches into an aggregate operation's AOI may have a negative effect on the operability of that site, possibly resulting in the inability to access existing or future aggregate resources on the current site and/or through an expansion. Complaints from nearby sensitive land uses can also have an impact on the continued operations of aggregate sites.</p> <p>When considering new sensitive land uses near mineral aggregate areas, planning authorities must consider active aggregate operations, zoning which permits future aggregate operations and, where provincial information is available, deposits of mineral aggregate resources. Provincial information refers to aggregate resource information that can be found on the Ministry of Energy, Northern Development and Mines websites (GeologyOntario or OGSEarth) for the Aggregate Resources of Ontario (currently ARO- 2019, but typically updated yearly, ARO-2020 planned for early 2021). The Aggregates Resources of Ontario was compiled from published reports and maps contained in Ontario Geological Survey Aggregate Resources Inventory Papers (ARIPs). These reports are also available to download from the GeologyOntario or OGSEarth websites.</p>	
<p>Cannabis Production and Processing Facilities</p>	
<p>For the purposes of this Guideline, cannabis production is the term used to refer to the entire cultivation process (i.e., growing plants, harvesting, drying and storing), whereas cannabis processing refers, for example, to the subsequent manufacturing of edible cannabis, cannabis extracts and cannabis topicals. Sorting and packaging may fall into either category depending on the scale, extent and type of the packaging.</p> <p>The Guideline applies to indoor cannabis production facilities in areas zoned for industrial uses within settlement areas, and all cannabis processing facilities as these facilities are considered industrial uses. For information on cannabis production facilities in prime agricultural areas and on rural lands see Appendix K.</p> <p>Personal use production of cannabis (both recreational and medical use) is not covered under this Guideline.</p> <p>This section will provide an overview of the federal, provincial and municipal role in regulating cannabis, as well as specific guidelines that can be applied to cannabis processing facilities.</p> <p>Various levels of government play different roles in regulating and/or planning aspects of cannabis production and processing facilities, and these are described below.</p>	<p>This section states that packaging of cannabis may be defined as cannabis production or processing “depending on the scale, extent, and type of the packaging”, however no further information is provided as to how this should be determined. Application of the guidelines differs for cannabis production and processing facilities if they are located outside of a settlement area boundary. Therefore more clarification should be provided as to when packaging is considered processing versus production in order to properly apply the guidelines.</p>
<p>Federal Role</p>	

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<p>In 2018, the Federal Government of Canada legalized the production and sales of cannabis and cannabis-related products under the Cannabis Act.</p> <p>The Federal Government regulates cannabis production and processing and facility licensing, including odour management requirements. The Cannabis Act and Cannabis Regulations (SOR/2018-144) are administered by Health Canada. Production is authorized via licenses, registration certificates (e.g. designated growers), and through exemptions.</p> <p>Licensed cannabis facilities are subject to Part V Good Production Practices in the federal Cannabis Regulations (note: for clarity, the Cannabis Regulations (SOR/2018-144) refers to one federal regulation at the link given above, not multiple regulations). Under Part V, indoor parts of the facility are subject to a regulatory requirement to be equipped with a system that filters air to prevent the escape of odours (Section 85 of Part V).</p> <p>Certain types of facilities are not subject to odour control provisions in the federal Cannabis Regulations. Examples include:</p> <ul style="list-style-type: none"> • Licensed facilities that are cultivating cannabis outdoors; and • Registered designates who need a registration certificate from Health Canada and are producing cannabis with a medical document authorizing the use of cannabis for medical purposes (even when they are cultivating indoors). <p>It is important to note that rules for controlling odour are addressed under the Cannabis Act and regulations. Nothing in this Guideline is meant to replace or detract from the authorities or requirements under the Cannabis Act and regulations.</p>	
Provincial Role	
<p>Cannabis production facilities may be subject to provincial environmental legislation such as the EPA, OWRA, Nutrient Management Act and Pesticides Act. Land use decisions around the location of these facilities are required to be consistent with provincial policies and conform or not conflict with provincial plans. An exact determination of the extent of provincial regulatory application is dependent on the circumstances associated with each cannabis production facility.</p> <p>Cannabis processors (e.g. oil extraction and refining, manufacturing of edibles, topical and extracts) could be subject to the environmental permission requirements for air emissions and/or waste management activities (e.g. waste storage and transport) under the EPA, if the activities are not agricultural.</p> <p>Some other involvement with the Ministry that may occur for cannabis production facilities includes the potential requirement for water-taking permits, permissions/ approvals related to stormwater works, records of site condition, regulation of pesticides use and storage and the regulation of waste storage</p>	

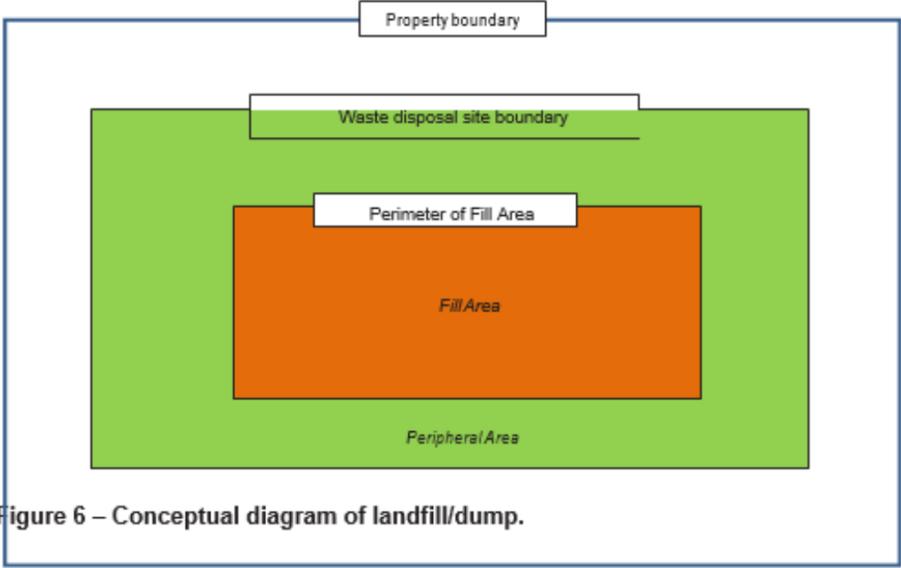
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<p>and transport. The ministry could also potentially be involved with the regulation of air emissions not directly associated with the growing, processing or storage of cannabis.</p>	
Municipal Role	
<p>Municipalities and planning authorities have a role in maintaining land use compatibility and ensuring consistency with provincial policies and conformity with provincial plans through land use planning decisions regarding proposed cannabis processing facilities and adjacent sensitive land uses. As part of Health Canada’s licensing process, cannabis producers and processors must comply with provincial and municipal laws, which provides an opportunity for local input through municipal by-laws (e.g. odour by-laws), zoning, and permitting processes.</p> <p>Municipalities have a range of tools available under the Planning Act to influence the location of cannabis production and processing facilities, such as official plan policies and land use designations, zoning by-laws, and site plan control. Through their zoning by-laws, municipalities may choose to adopt siting requirements for the production of cannabis, such as provisions for lot coverage, range and scale of accessory uses, or requiring setbacks to improve land use compatibility and reduce potential noise and odour impacts.</p> <p>Interim control by-laws can also be used to provide time to study potential impacts of land use planning matters and inform local decision-making. Municipalities may also choose to adopt a site plan control by-law under the Planning Act to address specific design elements that may improve compatibility such as mass or location of buildings, traffic access, parking layout, lighting, landscaping, drainage, etc.</p> <p>Municipalities also have powers under the Municipal Act to regulate a wide range of matters, including health, safety, and nuisance (subject to certain limits). Municipalities may also choose to develop odour control by-laws to regulate odour from cannabis production facilities.</p>	
Applying the Guideline to Indoor Cannabis Production Facilities in Areas Zoned for Industrial Uses in Settlement Areas, and Cannabis Processing Facilities	
<p>This Guideline is applicable to proposed new or expanding sensitive land uses near a cannabis processing facility and new or expanding indoor cannabis production facilities in areas zoned for industrial uses in settlement areas. When establishing policies to trigger compatibility studies, the largest AOI in Table 2 should be used. Alternatively, a planning authority may complete a study to determine an alternate AOI for a specific facility. This would enable factors such as the scale of operations, known mitigation, types of surrounding sensitive land uses, etc., to be factored into the AOI before it is set in policy. To assist with identifying these facilities, contact Health Canada at hc.compliance-cannabis-conformite.sc@canada.ca.</p>	

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Appendix E	Land Use on or Near Landfills and Dumps	
1	<p>Application</p> <p>This section of the Guideline builds on other sections and provides additional guidance and direction specific to planning applications for lands in proximity to landfills and dumps or for applications that would permit new landfills and dumps. It reflects the restrictions and controls on land use that the ministry wishes to see implemented in the vicinity of landfills and dumps in order to protect the health, safety and welfare of residents and others near such facilities. It replaces the 1994 document D-4: Land Use on or Near Landfills and Dumps.</p> <p>The need to consider this section extends to all proposals for land use on, or near, operating and non-operating landfills (as defined in Regulation 347: General – Waste Management, made under the EPA), and dumps which contain municipal solid waste, liquid waste, hazardous waste, industrial solid waste and/or sewage sludges. It does not apply to lands certified as organic soil conditioning sites in Regulation 347. This section applies to all landfills and dumps regardless of ownership.</p> <p>When a land use, irrespective of its sensitivity, is proposed within the AOI of a landfill (formerly known as the influence area in D-4), this section must be considered. This is due to the risks that landfill gas and to a lesser extent, leachate, pose where there are or will be buildings or other enclosed structures on the proposed (or existing) land use. As well there are risks from groundwater that impact buildings via the soil vapour to indoor air pathway that are important.</p> <p>This section also applies when looking for locations to establish a landfill in Ontario, as this is the proposal of a new major facility, though it is acknowledged that a range of tasks described may be covered through an EA process.</p> <p>What is described in this section is separate from requirements related to Section 46 of the EPA, which provides that waste disposal sites (including non-operating landfills) cannot be used for any other use for 25 years after the end of the disposal without the approval of the Minister of the Environment, Conservation and Parks. Similarly, if a new proposed development is planned to be built on land underlain by a leachate contaminated groundwater plume a record of site condition completed based on Ontario Regulation 153/04: Records of Site Condition – Part XV.1 of the Act, made under the EPA (O. Reg. 153/04) may be needed. While this Guideline generally focuses on noise, dust and odour, planning decisions related to landfills and dumps will need to consider other potential adverse effects associated with landfills and dumps, prominently including landfill gas and potential groundwater and surface water impacts, as described below.</p>	
2	Municipal Input into New Large Landfill Siting	

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	<p>In addition to the guidelines in this appendix, it should be noted that Ontario has given municipalities more say in landfill approvals by requiring municipal support be obtained. Requiring municipal support helps ensure that the municipalities most directly impacted by the siting of new large landfills would have a say on a matter as important as a new landfill undertaking. The province recognizes the importance of autonomy in local decision making and believes that new large landfills should be located in communities that are supportive of the project.</p> <p>The Environmental Assessment Act requires proponents of new, large landfills (i.e. those that require an individual/comprehensive EA) to obtain support from host municipalities and adjacent municipalities where there is land with authorized residential uses within 3.5 kilometres of the proposed new landfill site.</p> <p>This requirement does not apply to landfill expansions. Applicants for landfill expansion proposals continue to have to meet all current approvals process requirements, including extensive consultation requirements with municipalities and other stakeholders.</p>	<p>This is an issue that is still being dealt with by both the public and private sectors.</p>
3	<p>Impacts Associated with Operating Sites</p>	
	<p>Impacts from landfilled waste can be widespread depending on the size of the landfill, the type of waste buried and the geology of the area. Lands which are used to dispose of waste can have significant adverse effects on nearby land uses (e.g. landfill gas migration and groundwater risks, including vapour intrusion from contaminated groundwater), even long after the deposit of waste has stopped. It is both the waste and the associated landfilling operations that can generate significant adverse impacts on neighbouring lands.</p> <p>The potential adverse effects from active waste disposal can be persistent and long- lasting. Factors to be considered by the planning authority, proponent and qualified individuals as appropriate when land use is proposed near an operating site include but are not limited to:</p> <ul style="list-style-type: none"> • landfill-generated gases; • groundwater and surface water and soil contamination by leachate, including vapour intrusion from leachate contaminated groundwater; • surface water runoff; • litter; • contaminant discharges from associated vehicular traffic; • visual impact; • noise, dust, odour or other air emissions; • fires; and, • attraction of animals and insects (vectors and vermin). <p>Regarding landfill gases, the production and migration of methane gas is also a key concern due to the risk of explosion hazards. There is also the risk of asphyxiation when methane displaces oxygen. Particular attention is needed to address this issue; see Appendix F for more guidance on this matter.</p> <p>These factors should also be considered for a proposed landfill, but consideration of such factors would typically be covered off through an EA process which these sites are required to go through.</p>	
4	<p>Impacts Associated with Non-Operating Sites</p>	

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	<p>Factors to be considered by the planning authority, proponent and qualified individuals as appropriate when land use is proposed on or near a non-operating site (i.e. within the AOI) include:</p> <ul style="list-style-type: none"> • landfill-generated gases; • groundwater and surface water contamination by leachate, including vapour intrusion from leachate contaminated groundwater; • surface water runoff; • ground settlement; • visual impact; • soil contamination; • hazardous waste; and, • odour. 	
5	Information Resources on Landfills	
	<p>In addition to considering the sources of information described in Appendix B of this Guideline, for landfills and dumps it is recommended that planning authorities map and include all past and present landfills and dumps for consultation with proponents. Inventories of landfills and dumps adjacent to the planning authority's jurisdiction should also be developed, as part of the inventory of facilities recommended in Section 4.3.3 of this Guideline.</p> <p>Some possible sources of information on existing or closed landfills include:</p> <ul style="list-style-type: none"> • EAs: Waste management projects may have requirements under Ontario's EAA. Any EA process that may be required includes an assessment of the anticipated adverse effects of waste management activities on surrounding land uses. • Ministry District Office records on operating or former landfills. • Municipal records on operating and closed landfills (may not be kept in all municipalities). <p>Some possible sources of information for operating landfills include:</p> <ul style="list-style-type: none"> • ECAs and associated technical assessments: Conditions set forth in ECAs and impact assessments provide information on associated off-site adverse effects anticipated from landfills. • Annual reports prepared based on ECA requirements (which contain monitoring). • Ministry published waste disposal site inventories. 	
6	Additional Discussion on Key Environmental Considerations	
6.1	Landfill Generated Gas	

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	<p>Methane (CH₄) and carbon dioxide (CO₂) make up the majority of the landfill gas, with lesser amounts of nitrogen, oxygen, ammonia, hydrogen sulfide and various other gases. The quantity and components of gas generated by a landfill depends on the types and age of the waste buried, the quantity and types of organic compounds in the waste, moisture content and temperature of the waste, particle size and compaction, climate and buffering capacity.</p> <p>In this Guideline we focus on methane due to its combustibility and toxicity. Methane is an odourless, explosive and particularly strong greenhouse gas that contributes to climate change. It can build up in the ground and nearby buildings and become an explosion hazard. Regulatory agencies, proponents and planning authorities should always consider the possible presence of methane at or adjacent to lands that have been used for landfilling or dumps. Even landfills that are not operational continue to produce methane gas, hence it must be considered for both operating and non-operating landfills as described in sections 3 and 4 of the Appendix above. The extent of landfill gas subsurface migration depends on a number of factors such as landfill cover type, natural pathways (e.g. fractured rock), human-made pathways (e.g. drains, trenches etc.), and moisture conditions (wet vs. dry soil). Appendix F provides guidance in this area and is a replacement to the document D-4-1 Assessing Methane Hazards from Landfill Sites.</p>	
6.2	Leachate and Groundwater / Surface Water	
	<p>Leachate is a liquid that permeates the landfill and 'leaches' into the subsurface. It is a result of precipitation falling on the landfill, and runoff entering the landfill, or water from the decomposition of waste, which then passes through the waste before "leaching" out. It varies widely in composition and will depend on landfill characteristics such as the age of the landfill, and the depth and the type of waste deposited. The downwards migration of leachate, through waste into underlying soil can eventually reach the groundwater and, through the discharge of leachate-impacted groundwater, a surface water body.</p>	
7	Land Use Considerations	
7.1	How to Measure Separation Distance	
	<p>Section 2.4 of this Guideline indicates that separation distances should typically be measured from property boundary of the major facility (the landfill or dump in this case) to the property boundary of the sensitive land use (the proposed land use in this case, regardless of sensitivity). For landfills, instead of the property line, the waste disposal facility boundary may be used; this is because landfills are sometimes found within a property area boundary.</p> <p>However, not using the property line does not take into account any future potential expansions to the landfill. It should only be done if future expansions of the landfill are not expected, and when the buffer area has been recognized in the zoning by-law or site plans. In these situations, the planning authority is encouraged to assess the appropriateness of this approach, taking into consideration the potential for future expansions, as using this approach may limit or prohibit future expansions of the landfill (due to incompatible land uses being too close). Finally, the fill area itself should not be used for the purposes of measuring separation distances.</p> <p>See Figure 6 for a conceptual diagram of these boundaries. Peripheral Area is the area controlled by the site owner/operator between the boundary of the waste disposal site and the fill area; together, the peripheral area and the fill area make up the waste disposal site; the peripheral area will contain the buffer areas required to be on-site.</p>	<p>Just a flag regarding expansions of a landfill – Given the challenges in finding new landfill sites, preserving capacity for expansion should be a high priority.</p>

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	 <p>Figure 6 – Conceptual diagram of landfill/dump.</p> <p>Note: the <i>buffer area</i> would be between the property boundary and the perimeter of the <i>fill area</i> and/or <i>waste disposal site</i> boundaries.</p>	
7.2	Determining the Case-by-Case AOI	
	<p>When there are sensitive land uses proposed near an existing landfill or dump, the AOI will need to be determined on a case-by-case basis. Most of the requirements outlined in Section 8.1 of this Appendix may not apply to new proposed landfills that are subject to the EA process.</p> <p>The resources described in Section 5 of this Appendix may help in a case-by-case determination of what the AOI for a particular open or closed landfill is, or if necessary, what the AOI for a proposed landfill will be. Information availability will vary on circumstances. For example, ECAs were never obtained for many historic landfills and dumps and proposed new landfills do not hold ECAs at the land use planning stage. Qualified individuals such as Licenced Professional Engineers should be hired to determine what the AOI is. Factors described in Sections 3 and 4 of this Appendix should be considered; other factors to be considered include but are not limited to:</p> <ul style="list-style-type: none"> • age and status of the landfill (i.e. proposed, open, closed); • regional and local hydrogeology, topography and geomorphology; • presence of surface water features (e.g., river, lake, pond, wetland, etc.); • landfill capacity and annual rate of waste disposal; and, • types of waste. <p>For proposed landfills, the AOI will need to be estimated based on a facility that does not yet exist. The compatibility study elements identified in Section 2.6 of this Guideline should be considered, but in many cases the EA process will account for the creation of an AOI, even if such terminology is not used in the EA process.</p>	
7.3	The 500 metre Minimum Separation Distance	

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	<p>The ministry has determined that the MSD for landfills and dumps is 500 metres. When the AOI is developed on a case-by-case basis, it must never be smaller than the MSD.</p> <p>While 500 metres is the MSD, the separation distance required should be larger in certain situations. For example, there may be exceptional hydrogeological settings such as areas of fractured rock where leachate contaminated groundwater or gas could migrate beyond 500 metres.</p> <p>It should also be noted that developing a new sensitive land use within the MSD of a landfill or dump will require a <i>demonstration of need</i> as described in Section 2.8</p>	
7.4	Sensitive Land Uses Adjacent to Operating Landfills	
	<p>Planning authorities should not allow sensitive land uses within the MSD. If it is unavoidable, planning authorities must not consider Planning Act applications for sensitive land uses on an adjoining property, and on land used for waste disposal purposes where there are completed or partially completed fill areas. It should be noted that it is not possible to file a Record of Site Condition under O. Reg. 153/04 if waste is present on the property.</p>	
7.5	Examples of Sensitive Land uses for Operating Landfills	
	<p>The PPS provides a definition of sensitive land uses, which gives examples of sensitive land uses and is not comprehensive. For the purposes of landfills currently in operation, this definition of sensitive land uses may include but is not limited to any existing or committed land use which includes the following:</p> <ul style="list-style-type: none"> • a permanent structure used in animal husbandry; or • agricultural land used for pasturing livestock or growing crops; or • a permanent structure where a person is present on a full-time basis; but not including, generally, uses such as food or motor vehicle service facilities adjacent to a highway, utility operations, scrap yards, heavy industrial uses, gravel pits, quarries, mining or forestry activities (note: some of these examples would be considered major facilities). These uses tend to be outdoors; or • cemeteries. 	
7.6	Sequential Development	
	<p>In considering long-range planning, the ministry recommends that proponents delay or phase certain types of land use to coincide with closure of sections of a landfill, or the operation itself, as adverse effects are reduced or eliminated. This approach shall only be permitted in cases where no risks to health or safety are present.</p>	
8	Assessment	
	<p>The potential impacts described above in Sections 3, 4 and 6 of this Appendix should be addressed through compatibility studies when they are needed as described in Section 2.6 of this Guideline and other referenced technical documents.</p> <p>Hydrogeological assessment and engineering matters (e.g. noise) can be integrated in those studies or addressed in stand-alone reports.</p> <p>When considering the adverse effects that may be created at each landfilling site, it should be noted that the overall extent, number, degree and frequency of contaminant discharges and visual problems can vary with each landfilling site. Consideration must be given to the nature of proposed land use(s). Accordingly, compatibility studies for landfills can vary significantly from one landfill to another.</p> <p>Note that the AOI would need to be determined before these studies are done.</p>	
8.1	Hydrogeological/Engineering Studies	

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	<p>Once compatibility studies are triggered in the AOI of an open or closed landfill, where the hydrogeological and geological setting of the proponent's property and the inter- relationship with gas and/or leachate from the fill area are unknown, and/or if the proposed use is a new sensitive land use that is going to be reliant on groundwater for drinking water (if applicable), the proponent must ensure a qualified individual is retained to determine the subsurface conditions and leachate migration and, where necessary, propose remedial measures and controls (e.g. annual monitoring and sampling). Landfill gas assessment must be included.</p> <p>For proposed landfills, there is an EA process that covers these requirements; Ontario Regulation 101/07: Waste Management Projects under the EAA (O. Reg. 101/07) defines which waste projects are subject to the EAA process. Requirements for hydrogeological and surface water assessment under Ontario Regulation 232/98 – Landfilling Sites (O. Reg. 232/98) are also provided for new or expanding landfilling sites where the total waste disposal volume of the site is greater than 40,000 m3. Hydrogeological and surface water assessment is required as set out in this regulation and the associated guideline titled Landfill standards: A guideline on the regulatory and approval requirements for new or expanding landfilling sites. Requirements under Regulation 347 apply to proposed landfills that fall outside of these regulations. Identifying sites for new landfills (or other types of waste management facilities) will also need to consider whether there are policies in local source protection plans that may restrict or prohibit the development in an area identified as a vulnerable area for the purpose of protecting existing and future sources of drinking water.</p>	
8.2	Noise Assessment	
	<p>When assessing noise impacts from a landfilling site as part of compatibility studies, reference should be made to the document titled Noise Guidelines for Landfill Sites (October 1998). This document also describes mitigation measures that may be considered specifically for landfills. To retrieve a copy of this document if one is needed, please contact the ministry's Environmental Permissions Branch. For contact information, see: http://www.infogo.gov.on.ca/infogo/home.html#orgProfile/183618/en.</p>	
8.3	Controls and Monitoring for Adverse Effects	
	<p>Where appropriate based on the results of compatibility studies, planning authorities must require, as a condition of approval, that a proponent include mitigation measures to deal with potential adverse effects. This is consistent with Section 3.7 of this Guideline. Where mitigation measures are proposed, the planning authority should also require monitoring of mitigation measures and contaminant migration where necessary.</p> <p>Also, where the planning authority requires monitoring and inspections on private property, the planning authority should require that a contract be executed between the proponent and the planning authority, in the form of, or as part of, an agreement that may be registered on title.</p>	
Appendix F	Assessing Methane Hazards from Landfill Sites	
	The following is a replacement to the document D-4-1 Assessing Methane Hazards from Landfill Sites.	
	Introduction	
	<p>This Appendix provides technical guidance to proponents and planning authorities on how to test for the presence and potential harm from methane in the subsurface originating from landfilled waste. The document does not address problems associated with gases other than methane or with asphyxiation when oxygen is displaced by gasses produced from buried waste. The requirements of this Appendix are intended to form a general basis for planning authority endorsement or advice.</p>	
	General comments on technical assessments	

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<p>Methane will cause an explosion in an enclosed space, where it can be ignited, when accumulated to concentrations that range from the lower explosive limit (LEL) of 5% to the upper explosive limit (UEL) of 15% CH4 by volume of air. For this to occur, the landfill gas that enters the enclosed space must have:</p> <ul style="list-style-type: none"> • a methane concentration between the LEL and UEL, and, • both a high enough entry rate, and a high enough accumulation time, such that the methane concentration will still be above the LEL and below the UEL, after dilution by ventilation of the enclosed space. <p>Based on these points, a complete assessment of hazard should include consideration of the volume of gas containing methane at a concentration nearing the LEL that is moving into the enclosed space per unit time, and ventilation of the enclosed space.</p> <p>However, assessing hazardous conditions using the flux method does not provide reliable results and the required degree of certainty. In practice, safe conditions can only be assured by maintaining the methane concentration below the LEL. This is discussed further in Appendix E.</p> <p>It is a relatively straightforward matter to install monitoring and alarm devices for methane in, beneath, and immediately adjacent to structures, and in any associated utility conduits and trenches. Furthermore, there is a high level of confidence that such devices will, if properly maintained, provide adequate warning. Therefore, these devices should be used where there is any doubt about whether or not methane could exceed 20% of the LEL at any time. Where gas control facilities are required to protect a structure, monitoring and alarm devices will be required, or recommended to ensure that the control facilities do maintain the methane concentrations below 20% of the LEL.</p> <p>Major changes in weather, such as thunderstorms, may cause sudden increases in the concentration of methane at a point of concern and may also cause power interruptions. Therefore, back-up power should be provided to ensure that methane detectors, and ventilation systems will continue to function as necessary.</p> <p>The assessment of landfill gas hazards is a specialized field and should be done by qualified individuals (e.g. a Professional Engineer). The assessment should include details on the equipment used as well as weather conditions on days when field work was conducted. However, proponents planning authorities should be aware of the following:</p> <ul style="list-style-type: none"> • It is important to use the proper instrument for measuring methane concentration in the subsurface. Most of the liquid waste and hazardous waste equipment commonly used to detect methane concentrations less than the LEL incorporates catalytic sensors. Such devices do not function properly in an anaerobic atmosphere, as is often present in landfill monitoring wells, without a special attachment. • When methane concentrations greater than the LEL are expected, instruments using thermal conductivity sensors should be used. Such instruments are less sensitive than the catalytic type below the LEL. • The concentration of methane and the landfill gas gauge pressure that will be measured in a monitoring well in a landfill may be influenced by changes in barometric pressure. There may be a delay of several hours before the landfill gas pressure and escape rate equilibrate to a changed barometric pressure. This should be considered when assessing monitoring data. <p>Where studies are available that demonstrate that methane is not present in the landfilled waste at a concentration greater than 20% LEL, it can be assumed that methane from that landfill is not present on</p>	

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<p>Adjacent Property at a higher concentration.</p> <p>Property near a landfill that might be threatened by landfill gas is called the Adjacent Property, even though other property may separate it from the landfill. Thus, it may not be necessary to assess all the property in the vicinity of a landfill to establish safe conditions for development.</p> <p>Various activities, such as the construction of utility conduits, ditches and trenches, creating new impervious surfaces such as parking lots, filling in existing perimeter ditches and ponds and groundwater pumping may provide new pathways for methane migration or change the rate at which methane is produced. The impact of such activities on methane production and migration should be considered in advance of these activities taking place.</p>	
<p>Rationale for the requirements of the Guideline</p>	
<p>The minimum concentration of a particular combustible gas or vapor necessary to support its combustion in air is defined as the Lower Explosive Limit (LEL) for that gas. Below this level, the mixture is too “lean” to burn. For methane, 5% mixture in air is the LEL.</p> <p>The maximum concentration of a gas or vapor that will burn in air is defined as the Upper Explosive Limit (UEL). Above this level, the mixture is too “rich” to burn. For methane, 15% mixture in air is the UEL. The range between the LEL and UEL is known as the flammable range for that gas or vapor.</p> <p>To add a margin of safety, this Appendix considers concentrations greater than 20% of the LEL to warn conditions which could be potentially hazardous and gas control systems should be designed to maintain concentrations below this level. And, concentrations greater than 20% LEL may be associated with still higher concentrations, exceeding the LEL.</p> <p>However, if sufficient anaerobically decomposing organic material is present, the concentration of methane will be more than 10% LEL for many years and measuring methane concentrations within the landfilled waste may not prove to be a useful assessment method. Subsurface landfill gas monitoring at the landfill property line or within on-site or off-site structures (e.g., buried utilities, trenches, foundations, basements, etc.) is a more reliable method for assessment of the potential hazards.</p> <p>A number of factors may influence the migration and the concentration of methane in the subsurface, and several are dependent on both short term and seasonal weather conditions (e.g. barometric pressure trends, soil moisture and pH, temperature, frozen ground). Therefore, to safely assess the influence of seasonal variations and spatial and temporal distribution of methane, three hydrological cycles of monitoring and sampling with multiple samples across the weather seasons are normally required. The design of sampling and monitoring program should be site-specific and should be prepared and carried out by a qualified individual.</p> <p>The assessment of the concentration of methane in the subsurface on adjacent property (i.e., property located near a landfill) is more complex than is the assessment of its concentration within the waste and therefore longer periods of monitoring, including multiple samples across the weather seasons, are needed to assess the adjacent property. This is in part due to the fact that in the assessment of adjacent properties must consider the impact of weather conditions on both the production of methane and the migration of methane, as well as the complexity of the migration pathways must be considered.</p>	<p>Combustible gas trigger levels for landfilling sites are governed by Section 14.(2) of Ontario Regulation 232/98 (Landfilling Sites). There are two triggering levels respecting the subsurface migration of methane gas:</p> <p>a) The concentration of methane gas below the surface of the land at the boundary of the Site must be less than 2.5 per cent by volume; and,</p> <p>b) The concentration of methane gas from the Site must be less than 0.05 per cent by volume in any off-site building or enclosed structure, and in the area immediately outside the foundation or basement floor of the building or structure, if the building or structure is accessible to any person or contains electrical equipment or a potential source of ignition.</p> <p>Question – how does the 20%LEL “trigger” mentioned in the Land Use Compatibility Guideline relate to the trigger levels in O.Reg 232/98?</p>

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<p>Decommissioning and the installation of protective facilities</p> <p>The ministry would consider that landfill gas control, alarm and monitoring systems could be safely decommissioned under the following circumstances (Note Section 2.5 of this Appendix):</p> <ul style="list-style-type: none"> • For developments that overlie buried waste—Where the initial concentration of methane was greater than 10% LEL, monitoring systems may be decommissioned if methane concentration remains less than 20% LEL for three years, with any active gas control facilities not functioning. • For developments that do not overlie buried waste—Where the initial concentration of methane was greater than 10% LEL, systems may be decommissioned if methane concentration remains less than 20% LEL for five years, with any active gas control facilities not functioning. Where the initial concentration of methane was less than 10% LEL, one year of monitoring, with any active gas control facilities not functioning, and showing methane concentration less than 10% LEL, would be needed. <p>Note however, that Appendix E of this Guideline requires compatibility studies, which must include landfill gas assessment, when sensitive land uses are proposed within the AOI of a landfill or dump (which is, in turn, determined on a case-by-case basis). Bear in mind also that a change in land use on the lands identified above may affect migration on adjacent lands.</p> <p>Passive gas control facilities, that is facilities that do not rely on air blower or gas suction equipment, cannot be “turned off” and require maintenance or periodic inspection for proper operation. Therefore, monitoring facilities cannot be decommissioned at sites that rely on passive gas control facilities for safety, unless it can be shown that maintenance and/or inspection is not necessary.</p> <p>There may be cases where a proponent wishes to proceed with development before all of the monitoring data that would be necessary to assess the site can be collected. Under such circumstances safe conditions can be achieved if protective facilities are installed that would warn of unsafe conditions and activate abatement. Initially, it should be assumed that worst case conditions are present, and the concentration of methane is greater than 20% LEL outside the structures that are to be protected. Facilities must then be designed and installed that will operate to prevent concentrations greater than 20% LEL from occurring outside these structures. When it can be shown that the concentration of methane is less than 20% LEL, the facilities may remain on standby. Monitoring, as outlined in this Guideline, would still be required and the responsibilities must be assumed by an appropriate authority.</p>	
<p>Alternatives to regulating by concentration</p> <p>The ministry uses the concentration of methane as the main criterion for providing protection. This approach has been criticized in that it could occasionally prohibit developments where no danger exists or require gas control facilities where none are needed. There are those who suggest that these restrictions could be avoided if a way could be found to provide protection by using the broader criterion known as flux or by using some other approach. This matter has been examined and it was concluded that there are serious drawbacks associated with each of the alternate approaches that have been proposed. These approaches and their drawbacks are as follows:</p> <p>Approach—Develop a means of measuring flux and allow exemptions where the flux is less than some safe upper limit. For example, where a building code requires minimum air exchange rates for ventilation in dwellings, allow a methane flux that would not create a hazard provided the requirements of the building code have been met.</p> <p>Drawback—Safe conditions cannot be related to the minimum number of air exchanges required for</p>	

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<p>health and comfort in living areas. Even though the habitable space of a dwelling may have enough ventilation to dissipate a potentially hazardous flux of methane and provide safe conditions, there may still be enclosed spaces where explosive gas mixtures could develop. Examples are closets, cupboards, fuse boxes and basement cold rooms. Further, buildings are occasionally closed for a vacation or renovations. At such times, normal ventilation could be sufficiently reduced to allow dangerous concentrations of methane to develop in the interior. Therefore, the dividing line between non-hazardous and hazardous in terms of flux into living areas is not known.</p> <p>As for monitoring methane flux in the underground, no instrument capable of doing this has yet been developed to a satisfactory stage. Even if it were possible to measure the magnitude of a flux of methane in the underground, it would still be uncertain how much of a hazard that particular flux constituted under various circumstances in various locations.</p> <p>Approach—Seal the outsides of structures to prevent methane entry.</p> <p>Drawback—Even if all methane entry points into a building could be sealed, additional openings might develop later. For example, cracks may develop in the basement wall, or openings may be made for such things as utility conduits.</p> <p>Approach—Allow exemptions for sources of methane that, because of their size or the rate at which they produce methane, will not produce sufficient methane to be hazardous.</p> <p>Drawback—The various types of landfill sites cannot be distinguished by the amount of organic material or methane they contain, with possible exceptions being ash disposal sites and hazardous waste disposal sites. No method is available to determine the minimum amount of buried organic material that could pose a hazard in a landfill site. Even small amounts of buried organic material, such as soil or putrescible wastes, can produce methane at concentrations above the LEL. Such concentrations can occur in otherwise relatively clean soil fill. Therefore, the Ministry is unable to suggest a way to provide exemptions from safety restrictions on the basis of a minimal content of organic material.</p> <p>Approach—Allow exemptions where the soil type would prevent the movement of sufficient methane to be hazardous.</p> <p>Drawback—Hazardous amounts of methane will probably not move through saturated soils and unfractured clayey soils. However, near-surface clayey soils are commonly fractured. All soils are subject to possible de-watering by construction. For example, where a high-water table previously blocked methane migration, the construction of a new utility trench could lower the water table, and allow methane migration.</p> <p>For these reasons, the ministry does not believe that any of these proposed approaches provides reliable protection against explosion hazards from landfill gas. Therefore, the ministry must continue to regulate methane hazards on the basis of concentration even though in some cases this approach may be too restrictive. Where an applicant believes that restrictions based on concentration can be safely relaxed, supportive evidence on a case by case basis will be considered by the ministry. Where there are uncertainties, the ministry will allow them to be resolved through monitoring before development proceeds.</p>	
<p>Appendix G</p>	<p>Glossary</p>

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<p>Adverse effect(s): means one or more of:</p> <ul style="list-style-type: none"> 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 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 normal conduct of business (EPA) <p>Amenity Area: an outdoor space or facility that is used for the enjoyment of persons residing in or utilizing any building(s) on the property/premises.</p> <p>Area of Influence: an area surrounding the property boundary of an existing or planned major facility where adverse effects on surrounding sensitive land uses have a moderate likelihood of occurring. An alternate AOI may be determined by the planning authority based on a technical and scientific process similar to a compatibility study.</p> <p>Buffer: A method of control used to prevent or minimize the adverse effects of incompatible land uses and may be in the form of:</p> <ul style="list-style-type: none"> 1. a land area or intervening space sufficient to provide the necessary distance separation; or 2. a natural or human-made feature such as a berm, wall, barrier, planting, topography, trench, fence or other structure or technical control (e.g. solid brick walls, triple-glazed windows to lessen the effect of noise); or 3. a land use different from the 2 conflicting ones but compatible with each; or 4. any combination of the above, interposed between conflicting land uses. <p>Compatibility Study(ies): a study that assesses potential adverse effects and recommends separation distances and mitigation measures, if needed, to limit impacts to surrounding land uses.</p> <p>Contaminant: means any solid, liquid, gas, odour, heat, sound, vibration, radiation or combination of any of them resulting directly or indirectly from human activities that causes or may cause an adverse effect (EPA).</p>	

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<p>Demonstration of Need: a study that determines whether there is an identified need for the proposed use in the proposed location, and if alternative locations for the use have been evaluated and there are no reasonable alternative locations.</p> <p>Discharge: when used as a verb, includes add, deposit, leak or emit and, when used as a noun, includes addition, deposit, emission or leak (EPA).</p> <p>Employment Area: areas designated in an official plan for clusters of business and economic activities including, but not limited to industrial uses, manufacturing, warehousing, offices, and associated retail and ancillary facilities (PPS).</p> <p>Environmental Assessment: a study which assesses the potential environmental effects (positive or negative) of an individual proposal. Key components of an EA include consultation with government agencies and the public; consideration and evaluation of alternatives; and, the management of potential environmental effects. Conducting an EA promotes good environmental planning before decisions are made about proceeding with a proposal.</p> <p>Environmental Compliance Approval: an approval issued under Part II.1 of the EPA.</p> <p>Fill Area: the area of a waste disposal site set aside for landfilling or dumping.</p> <p>Fugitive Dust: dust or suspended particulate matter that is generated due to mechanical disturbance of granular material (e.g. dirt, soil). Fugitive dust sources may be separated into two broad categories: process sources (e.g. rock crushing) and open dust sources (e.g. material handling/storage).</p> <p>Infilling: development on vacant lots or underdeveloped lots within a built-up area.</p> <p>Intensification: means the development of a property, site or area at a higher density than currently exists through:</p> <ul style="list-style-type: none"> a) redevelopment, including the reuse of brownfield sites; b) the development of vacant and/or underutilized lots within previously developed areas; c) infill development; and d) the expansion or conversion of existing buildings (PPS). <p>Land Used for Waste Disposal Purposes: the land comprising the fill area, where landfilling or dumping has occurred, and the land which is being used or is to be used for the leachate buffer area and/or the gas buffer area; the land may be on- or off-site.</p> <p>Landfilling: the disposal of waste by deposit, under controlled conditions on land or on land covered by water and includes compaction of the waste into a cell and covering the waste with cover materials at regular intervals (Regulation 347).</p> <p>Major Facilities(y): facilities which may require separation from sensitive land uses, including but not limited to airports, manufacturing uses, transportation infrastructure and corridors, rail facilities, marine facilities, sewage treatment facilities, waste management systems, oil and gas pipelines, industries, energy generation facilities and transmission systems, and resource extraction activities (PPS).</p> <p>Major Transit Station Area: the area including and around any existing or planned higher order transit station or stop within a settlement area; or the area including and around a major bus depot in an urban core. Major transit station areas generally are defined as the area within an approximate 500 to 800 metre radius of a transit station, representing about a 10-minute walk (A Place to Grow).</p>	

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<p>Minimum Distance Separation: means formulae and guidelines developed by the Province, as amended from time to time, to separate uses so as to reduce incompatibility concerns about odour from livestock facilities (PPS).</p> <p>Minimum Separation Distance: a recommended minimum distance within which adverse effects are highly likely to occur and incompatible development should not normally take place.</p> <p>Municipal Comprehensive Review: means new official plan, or an official plan amendment, initiated by an upper- or single-tier municipality under section 26 of the Planning Act that comprehensively applies the policies and schedules of A Place to Grow.</p> <p>Planning Authorities: means the various agencies that make decisions on land use planning. This includes the entity or body with planning approval authority under the Planning Act (e.g. The Minister of Municipal Affairs and Housing, the council of a municipality, a local board, and a planning board). Note that decisions of the Local Planning Appeal Tribunal when determining appeals of decisions made by a planning authority under the Planning Act must also be consistent with that Act and the PPS.</p> <p>Point of Reception: means any location on a noise sensitive land use where noise from a stationary source is received. Noise sensitive land uses may have one or more points of reception (NPC-300).</p> <p>Proponent: means any person who makes an application under the Planning Act. For the purpose of this Guideline, this includes developers of sensitive land uses and developers of major facilities. Proponent can also mean a person who makes an application for approvals under other legislation, such as the Environmental Assessment Act.</p> <p>Sensitive Land Uses: buildings, amenity areas or outdoor spaces where routine or normal activities occurring at reasonably expected times would experience one or more adverse effects from contaminant discharges generated by a nearby major facility. Sensitive land uses may be a part of the natural or built environment. Examples may include, but are not limited to: residences, day care centres, and educational and health facilities (PPS).</p> <p>Separation Distance: the distance between a sensitive land use and a major facility. This distance is usually measured from property line to property line, except as described in Section 2.4.</p> <p>Settlement Area: means urban areas and rural settlement areas within municipalities (such as cities, towns, villages and hamlets) that are:</p> <ul style="list-style-type: none"> a) built-up areas where development is concentrated and which have a mix of land uses; and b) lands which have been designated in an official plan for development over the long-term planning horizon (A Place to Grow). <p>Vectors and Vermin: disease-carrying organisms, insects, rodents, birds (especially gulls) and other harmful creatures (e.g., bears).</p> <p>Warning Clause: Means a notification of or obligation to notify a potential purchaser or tenant of a potential annoyance due to an existing source of environmental noise. When circumstances warrant, agreements that are registered on title to the lands in question should incorporate provisions for using warning clauses. Warning clauses would be included in agreements of Offers of Purchase and Sale,</p>	

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<p>lease/rental agreements and condominium declarations (NPC-300, with modifications).</p> <p>Waste Disposal Site: means,</p> <ul style="list-style-type: none"> a) any land upon, into, in or through which, or building or structure in which, waste is deposited, disposed of, handled, stored, transferred, treated or processed, and b) any operation carried out or machinery or equipment used in connection with the depositing, disposal, handling, storage, transfer, treatment or processing referred to in clause (a) (EPA). <p>Waste Management Systems: means sites and facilities to accommodate solid waste from one or more municipalities and includes recycling facilities, transfer stations, processing sites and disposal sites (PPS).</p>	
Appendix H	List of Abbreviations

APPENDIX H – LIST OF ABBREVIATIONS

Abbreviation	Definition
AAR	Acoustic Assessment Report
Air Emissions <u>EASR</u>	Ontario Regulation 1/17: Registrations Under Part II.2 of the Act – Activities Requiring Assessment of Air Emissions
<u>AOI</u>	<i>Area of Influence</i>
<u>BMPP</u>	Best Management Practices Plan
<u>CPPS</u>	Community Planning Permit System
<u>EAA</u>	Environmental Assessment Act
<u>EA</u>	Environmental Assessment
<u>EASR</u>	Environmental Activity and Sector Registry
<u>ECA</u>	Environmental Compliance Approval
EPA	Environmental Protection Act
A Place to Grow	A Place to Grow: Growth Plan for the Greater Golden Horseshoe, 2020
Guideline(s) MDS	Land Use Compatibility Guideline Minimum Distance Separation (Ontario Ministry of Agriculture, Food and Rural Affairs')
<u>MMAH</u>	Ministry of Municipal Affairs and Housing
MSD	Minimum Separation Distance
<u>MTSA</u>	Major Transit Station Area
<u>NAICS</u>	North American Industrial Classification Standards
<u>NEE/NEP</u>	Noise Exposure Forecast/Noise Exposure Projection
<u>NEPPB</u>	Normal Farm Practices Protection Board
<u>OMAFRA</u>	Ontario Ministry of Agriculture, Food and Rural Affairs
OP	Official Plan
<u>OPA</u>	Official Plan Amendment
<u>OWRA</u>	Ontario Water Resources Act
<u>PNSM</u>	Primary Noise Screening Method
PPS	Provincial Policy Statement, 2020
The Ministry	Ministry of the Environment, Conservation and Parks

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Appendix I	Case Studies	
	Case Study 1: Importance of early and ongoing collaboration	
	<p>A municipality received a planning application to develop lands for mixed commercial and residential use adjacent to an existing manufacturing plant. The development consists of multi-level residential buildings with commercial uses on the lower floors. To permit the redevelopment in the area surrounding the plant, the municipality amended the OP and zoning by-law which include lands within 300 metres of the plant. The new development would fall within the AOI of the manufacturing plant.</p> <p>The plant has operated since the early 1960s and operates 24 hour per day, 7 days per week. Its operations produce noise, fugitive dust, and odour emissions. The plant has an ECA and has been inspected several times over the years with no compliance issues identified during the inspections. The plant does not have a history of noise or odour complaints.</p> <p>The plant owners raised concerns about the redevelopment in the area, and in particular, how its operations may result in noise and odour impacts at the new residential buildings.</p> <p>To help prepare for the eventual redevelopment in the area, the ministry worked collaboratively with all parties (i.e., municipality, plant owner and developer) to ensure that the area is developed in a manner that allows the plant to continue its operations.</p> <p>The plant owners conducted source testing to quantify the impacts of odour emissions from the plant. The results were used to assess and manage odours from the plant and the impact on the proposed residential development. A compatibility study addressing odour was jointly prepared by the plant owners and the developer.</p> <p>The plant owners and developers entered into a range of agreements to introduce noise and odour mitigation measures at the plant (at-source) and noise mitigation measures at the residential buildings (at receptor). The legally binding agreements ensured that the noise levels agreed to by all parties would be met and that noise control measures would be maintained for the long-term. The developers paid for a range of mitigation measures, and these were identified in agreements. Mitigation measures included:</p> <ul style="list-style-type: none"> • At-source: modification or replacement of noise-generation equipment at the plant, additional odour controls to reduce odour emissions at the facility. • At-receptor: buildings designed and built with no openings or residential units that face the plant to minimize or eliminate the noise impacts <p>Over the years, a number of other residential and commercial developments have been built within the AOI and even the MSD of the site. The plant has maintained its practice of early and effective engagement with sensitive land uses and the municipality, and use of agreements, including three-party</p>	<p>Case Study 1 - uses an example that could be relatively common in Niagara. It also seems to be reliant on having participation from the Major Facility ownership. If this is not something that the Ministry can enforce, I'm not sure how interested a manufacturer is in coming to the table as a good future neighbour when the municipality made land use changes that bring sensitive uses into the MSD in particular. While it appears as though the developer would be on the hook for at-source improvements, the need for legally binding agreements seems to be a discouraging encumbrance on the Major Facility. It also seems as though more effort and expense would be required of the municipality for legal and other resources required to ensure everything is set in place. I would imagine the agreement would be require to register on title for the Major Facility (and the sensitive land use?). This facility specific approach would seem to include surrendering any potential future expansion on the site of the Major facility, which has implications to the facility owner and potentially encumber future potential. Furthermore, should the facility close or sell to a different industrial operator, the agreement would be part of due diligence and may limit potential buyer/occupant for purchase. How would an encumbrance of this nature be dealt with? If the operator of the major facility is within an Employment Area, it would seem to represent a concern given the intent of the Employment Areas is to allow operations without fear of sensitive land use encroachment. This case study does not represent protections, but rather introduces accountability on the MF through legal agreement. If I was a business owner, I would not be interested in voluntarily entering into a process such as this.</p> <p>The inclusion of the case studies is useful. This section could benefit from the use of illustrations or diagrams to provide more context (i.e. the illustrations included in the case studies for the OMAFRA Permitted Uses in Prime Agricultural Area Guidelines).</p>

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<p>agreements that include the municipality as a signatory. The municipality's critical role in seeking land use compatibility at the site over the years has included but not been limited to: OPAs, secondary plan development, negotiating acceptable mitigation measures, amending the zoning by-law and being a signatory to some of the key agreements.</p> <p>Note: At receptor noise control measures are only acceptable in ministry permissions if the new development is designated by the municipality as a Class 4 Area (NPC-300).</p>	
<p>Case Study 2: Importance of community relations</p>	
<p>A rendering plant has been operating for decades in a former industrial area and it is now surrounded by residential land uses. The closest residential unit is 80 meters from the plant; therefore, within the MSD of the plant. The plant operates 24 hours per day, 7 days per week and previously the ministry received hundreds of complaints about odours from the plant per year. The plant operated under an ECA and is in compliance with all zoning and municipal by-laws. The local public health department determined that the plant's emissions are not toxic and do not pose a health risk to the community.</p> <p>Over the years the company has made significant investments trying to mitigate the odours. The ministry monitors the odour issues and regularly visits the plant in response to complaints from local residents. The ministry asked the company to submit an odour abatement plan for approval. The company's plan included mitigation measures such as:</p> <ul style="list-style-type: none"> • Increasing the height of the stacks on the roof to disperse the emissions; • Maintaining equipment; • Completing a ventilation assessment; and • Changing the method it uses to dispose of wastewater. <p>The company also installed new odour reduction technology.</p> <p>Throughout the odour reduction process, which took two years to complete, the company has maintained good community relations by attending public meetings held pursuant to various processes, such as Planning Act approvals for the surrounding residential developments when they were proposed. The company also communicated regularly with local politicians, area residents and ministry staff. Even today, the company frequently informs all parties on its progress to install and fine tune the new odour reduction technology, including reporting on any anticipated delays or issues. As such, they still communicate regularly, and mitigation measures are expected to be maintained over time. By maintaining good community relations, area residents responded well and provided the company with</p>	<p>Case Study 2 – This case study is unclear about the nature of the existing sensitive uses being established in the first place. Is this a scenario that would be more in line with longstanding incompatibility that was perhaps not subject to D-Series? Again, the premise includes MF cooperation when it is deemed to be in compliance. This is entirely a good neighbour's reliance. Does the Ministry involve themselves at this level presently? Seems to describe their involvement in these Case Studies with more prominence in a facilitator role vs a regulatory / enforcement capacity, which I would think is more what they have acted in to date. The costs of some of the improvements would seem substantive for someone already compliant. Perhaps I am just out of touch with the level of involvement they presently perform. This would lean towards NPC-300 Class 4 status?</p>

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<p>the opportunity to explain their operations and actions taken to reduce odours and address complaints (which have dropped considerably over time). Although considerable expenses were incurred, these would have been greater if the company had not made efforts in maintaining good community relations. The company's community relations program helped de-escalate the situation and allowed the company time to address the complaints. Conflicts between sensitive land uses and major facilities can often be avoided through open communication and with the use of best management practices.</p>	
<p>Case Study 3: Addressing Compatibility Near a Quarry</p>	

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<p>A development site is located near a 400-series highway on the periphery of a large municipality and is approximately 75 hectares in size, made up of three distinct parcels. The developer is proposing approximately 18 net hectares to be used for light (low- profile) industrial and employment generating uses and approximately 10 net hectares for retail uses. There is an active bedrock quarry adjacent to the site.</p> <p>The surrounding land uses include agricultural land abutting site to the north, an active bedrock quarry abutting the western boundary, a residential subdivision under development located to the east (adjacent to site, but across a municipal road) and a major retail center to the south east. The site is currently zoned Development Reserve (DR), is intended as a future location for appropriate zoning to implement the OP designation of Employment and Enterprise Area. The municipality recognizes the lands for future urban development.</p> <p>Applications for an OPA and zoning by-law amendment were received to facilitate the development of a business park. The applicant was looking to rezone from Development Reserve to a Business Park Industrial Zone (IP). The IP zone would have the effect of accommodating a range of office, light industrial and employment generating uses.</p> <p>An Aggregate Impact Assessment which took into account vibration from quarry blasting was completed as part of the application process (and at the request of the quarry operator) and recommended the prohibition of all sensitive land uses within 513 meters of the adjacent mineral aggregate resource ensuring only compatible non-sensitive land uses are located within 513 meters of the aggregate site. It took into account vibration from quarry blasting.</p> <p>The OP contains policies regarding aggregate resources, ensuring that they are close to markets, protected from incompatible land uses and that they have minimal negative impacts on communities. The applicant submitted an Aggregate Impact Assessment, which sought to identify suitable land uses within 500 meters of the existing quarry and exclude sensitive land uses that would otherwise be impacted by vibration from the quarry blasting.</p> <p>Findings of the assessment were that the sensitive land uses typically found within a zoning of IP would be prohibited by a provision until such time that a detailed vibration study could demonstrate that there will be no negative impacts from quarry. The standard uses that would be prohibited by this provision include uses such as day cares, hotels, places of assembly, etc.</p> <p>The detailed zoning by-law also requires that all sensitive land uses be prohibited within 513 meters of the existing bedrock quarry (including a 30-meter blasting setback, which was confirmed with the quarry operator's license), ensuring only compatible non- sensitive land uses are located in proximity to the aggregate operation.</p> <p>A private agreement was established between the applicant and quarry operator as part of the Planning Act approval and Aggregate Impact Assessment process. The agreement included holding provisions (i.e. a vibration study would need to be completed to allow any additional land uses in the future), limited land uses on adjacent land, and covenants on title to ensure that no future re-zoning applications in future years would negatively impact the quarry.</p>	<p>Case Study 3 – The impression from the description would be to establish the 10 hectares of retail immediately along the municipal road, but if there is already a major retail centre in the southeast, is there an actual need for more retail? Regardless, the transition of the uses would be most appropriate having retail closest to the residential and IP behind that and remaining area towards the quarry staying in holding. Also, not certain if use of agreements is currently a common practice. All three Case Studies so far have them in the mix as part of a solution, so what “requires” participation of any party? Quarry extraction does not talk about direction. Is it approaching of moving away? There seems to be much reliance on the vibration study. What limitations might be part of the consideration from other act or regulation such as that of the ARA and consideration of fly-rock?</p>

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<p data-bbox="378 239 897 267">Case Study 4: Importance of Using AOIs</p> <p data-bbox="378 302 1666 461">A manufacturing plant opened in a small rural community in the early 1950s. The once isolated plant became surrounded by sensitive land uses including a housing development and daycare. The new neighbors complained to the ministry that they were being negatively impacted in their homes by the fumes and noise coming from the manufacturing plant.</p> <p data-bbox="378 498 1620 560">The ministry ordered the owner of the plant to assess noise, dust and odour emissions, develop an abatement plan and implement an enhanced complaint response procedure.</p> <p data-bbox="378 596 1635 658">The plant completed the studies, hosted a public meeting to report on its progress and established a public liaison committee.</p> <p data-bbox="378 694 1611 788">To address some of the neighbours' concerns, the plant also reduced its hours of operation, reformulated some of its raw materials and relocated some of its operations to another plant in the United States – resulting in a loss of jobs.</p> <p data-bbox="378 825 1681 1017">The plant subsequently failed an inspection by the ministry as some regulations are based on the proximity of sensitive receptors (e.g. the new homes). As a result, the plant was charged with an offence under the EPA. The company investigated alternate production methods and at-source mitigation technology that would meet the environmental standards. The company decided that neither solution was economically feasible and moved all operations to the United States resulting in the loss of several hundred jobs.</p> <p data-bbox="378 1054 1681 1214">The municipality's decision to allow residential housing around the manufacturing plant did not serve the best interest of the community. Municipalities have to carefully consider how their land use planning decisions will impact their community, both now and in the future. Use of the AOI would have helped in this scenario; compatibility studies, had they been done early enough, would have shown the risks and potential impacts of approving this housing development.</p>	
<p data-bbox="378 1248 958 1277">Case Study 5: Impacts from a Former Landfill</p> <p data-bbox="378 1289 1666 1510">This case study focuses on a landfill that was in operation between the 1950s and 1960s where due to lack of records the extent of its fill area was unknown. In the following years, the area experienced fast development, with various manufacturing operations and sensitive land uses such as residential developments being established adjacent and in close proximity to the closed landfill. These developments resulted in unsafe housing conditions and evacuation of some of the nearby houses, as well as leachate impacts to the groundwater which resulted in significant impacts to the municipality's water supply resulting in decades of costly remediation.</p> <p data-bbox="378 1547 1666 1739">To prevent these outcomes, approaches as described in Appendix D of this Guideline can assist the planning authority. Municipalities should consider factors discussed in Appendix D prior to approving a development near a closed or operating landfill. To prevent adverse effects and potential for explosion hazards from landfill gas migration, municipalities should require proponents proposing to locate near existing landfills to complete compatibility studies and consider factors such as landfill gases, primarily methane, as well as groundwater and surface water contamination by landfill leachate.</p>	

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Appendix K	Information on Sectors not Included in this Guideline	
	<p>This Guideline does not provide specific land use compatibility direction with regards to locating some major facilities, or their approvals, including: airports, transportation infrastructure and corridors (e.g., transit stations), rail facilities, marine facilities, oil and gas pipelines, energy generation facilities and transmission systems and some resource extraction activities. This Guideline, however, applies to encroachment of sensitive land uses on some of these facilities. This Guideline also does not address specific land uses which may not be major facilities, as defined by the PPS, but which may also have compatibility requirements, such as agricultural uses. Additionally, this Guideline does not apply to activities associated with major facilities that do not require land use approval under the Planning Act, such as temporary aggregate, asphalt or concrete facilities associated with the construction or rehabilitation of transportation facilities. However, these activities may require other approvals (e.g., ECA) to address potential adverse effects to nearby sensitive land uses. This section provides background information and resources related to these sectors, which may be helpful in considering land use compatibility for these uses. The information provided here is not inclusive of all resources and legislation that may exist for these sectors.</p>	
	Airports and Aerodromes	
	<p>Transport Canada uses Noise Exposure Forecast/Noise Exposure Projection contours to provide the actual and forecasted aircraft noise in the vicinity of airports and aerodromes. Where noise forecasting or projections have been developed, the contours for land use planning in the area should be used. Contact the airport authority or aerodrome operator for copies of the noise forecasts or projections.</p> <p>The best practice is for planning authorities to use noise contours to develop “airport operating areas” which are identified in OPs together with appropriate policies. This is a transparent way to share this information and to use more easily identifiable landmarks (e.g. roads, railways, valleys) to identify the noise contours themselves. Given the importance, rarity and economic significance of airports the need to ensure the potential for their future expansion, and the need to allow for 24-hour operation, a best practice is to consider protection to lower noise contour levels. For example, rather than the maximum 30 Noise Exposure Forecast/Noise Exposure Projection (NEF/NEP) used by Transport Canada, some planning authorities are restricting sensitive land uses down to 28 NEF/NEP. For more information on the NEF/NEP contours, please see Transport Canada’s website.</p> <p>For airports and aerodromes that do not have NEF/NEP contours, please refer to Transport Canada’s Aviation: Land Use in the Vicinity of Aerodromes (Reference Number TP1247E).</p>	
	Transportation Infrastructure and Corridors, Rail and Marine Facilities	
	<p>The construction of many major transportation infrastructure and corridors, including highways, transit corridors and arterial roads, has requirements under Ontario’s EA process. There are four different EA processes that may apply:</p> <ol style="list-style-type: none"> 1) Municipal Engineers Association Municipal Class EA – Provides a process for municipalities to assess the impacts of roads. 2) Class EA for Provincial Transportation Facilities – Provides a process for the Ministry of Transportation to assess the impacts of provincial transportation facilities including highways. 3) Guide to EA Requirements for Transit Projects – A document which outlines the process specified in Ontario Regulation 231/08: Transit Projects and Metrolinx Undertakings for the assessment of the impacts of transit projects. 4) Individual EA – Project-specific process to assess the impacts of road or highway projects larger than those permitted to proceed under the Municipal Engineers Association Municipal Class EA or Ministry of Transportation Class EA. 	

Land Use Compatibility Guideline	Niagara Region Review Comments
<p>EA documents can be reviewed for the potential adverse effects of transportation infrastructure and corridors when considering sensitive land use development in surrounding areas. The EAs may not have been completed recently, and therefore should not be fully relied upon in the preparation of detailed compatibility studies. The date of the studies should be considered and to see if new information is available that may impact the projections made at the EA stage, such as changes to traffic volumes, landscaping, lines-of-site, etc.</p> <p>When locating sensitive land uses near existing highways, roads and railways, the Ministry's Environmental Noise Guideline: Stationary and Transportation Sources – Approval and Planning NPC-300 and other applicable guidelines can assist in determining what the noise impacts of these transportation corridors are.</p> <p>In addition, anyone planning to construct on or adjacent to a provincial highway may require a permit from the Ministry of Transportation. The Ministry of Transportation issues permits under the Public Transportation and Highway Improvement Act for entrances, buildings, signs, and encroachment either onto or adjacent to provincial highways to manage access and preserve the function of provincial transportation corridors.</p> <p>The Ministry of Transportation's Highway Corridor Management Manual contains policies, guidelines, best practices and specifications for managing building and land use, encroachments, access and signs within the Ministry's controlled area under the Public Transportation and Highway Improvement Act and applications for permits are submitted through the Highway Corridor Management System.</p> <p>The Ministry of Transportation's Freight-Supportive Guidelines can be consulted for advice on planning for transportation facilities and corridors in a way that supports safe and efficient movement of freight while integrating and balancing the compatibility of surrounding land uses and needs of other transportation system users.</p> <p>When considering new development near railways, the Federation of Canadian Municipalities and the Railway Association of Canada's Guideline for New Development in Proximity to Railway Operations should be consulted. This Guideline provides information on common issues, mitigation, barriers and review processes for new development and infilling near railways.</p> <p>When considering new development near marine facilities, the Canada Marine Act and Canadian Environmental Protection Act should be consulted.</p>	
<p>Oil and Gas Pipelines</p>	
<p>Proponents can consult the guide "Land use planning for pipelines: A guideline for local authorities, developers, and pipeline operators" for guidance on land use compatibility for oil and gas pipelines.</p> <p>The ministry's Guideline D-3 Environmental Considerations for Gas or Oil Pipelines and Facilities also outlines the environmental considerations that the Ministry advises the Ontario Energy Board and/or the National Energy Board to take into account when they give approval to gas or oil pipelines and facilities under their jurisdiction.</p>	
<p>Energy Generation Facilities and Transmission systems</p>	

Land Use Compatibility Guideline	Niagara Region Review Comments
<p>The following legislation governs the planning of energy generation facilities and transmission facilities:</p> <ul style="list-style-type: none"> • Ministry of Environment, Conservation and Parks: Green Energy Act • O. Reg. 359/09 under the Electricity Act • Ontario Energy Board Act (Board approves construction of new transmission/distribution facilities) <p>ECAs under the EPA govern noise, odour and contaminant emissions from these facilities/systems.</p> <p>The Canadian Nuclear Safety Commission regulates all stages of the life of each nuclear power plant in Canada, from the EA required before plant construction, to the decommissioning of the facility once operations are ended.</p>	
Resource Extraction related to Petroleum and Salt Production	
<p>Oil, natural gas, and salt are produced in southwestern Ontario using wells licenced by the Ministry of Natural Resources and Forestry under the Oil, Gas and Salt Resources Act.</p> <p>Records for oil, natural gas, or salt mining wells licences are housed at the Oil, Gas and Salt Resources Library in London, Ontario and are also available online at www.ogslibrary.com. Basic well information, including location, is available free of charge.</p> <p>In addition to licenced wells, there are many wells predating licencing requirements that have long since ceased to be used and have no identifiable operator. Their location is often unknown as no records were required at the time. Orphan wells such as these that are encountered during development can present a hazard to human or environmental health or safety and may need to be plugged.</p> <p>For more information, and to obtain a licence to plug an orphan well, please contact the Ministry of Natural Resources and Forestry's Petroleum Operations Section by calling 519-873-4634 or emailing POSRecords@ontario.ca.</p>	
Resource Extraction related to Mining	
<p>The Ministry of Energy, Northern Development and Mines has issued two guidance papers on municipal planning near mines. The first, Provincial Policy Statement 2.4 Mineral Resources and Municipal Planning provides guidance on the protection and access to mineral resources.</p> <p>The second guidance paper, Provincial Policy Statement 3.2 Mining-Related Hazards and Municipal Planning provides guidance on municipal planning near former or current mining operations due to related hazards such as open shafts, deep pits or unstable ground.</p> <p>To obtain copies of these documents please contact the local Ministry of Energy, Northern Development and Mines office.</p>	
Agricultural Uses	

Land Use Compatibility Guideline	Niagara Region Review Comments
<p>Agricultural uses are not considered major facilities in the PPS and as such are not specifically referenced under this Guideline. Instead, compatibility for this broad suite of land uses is addressed through various other tools that are developed and implemented by different levels of government depending on the topic. Other policies of the PPS also speak to agricultural uses and compatibility.</p> <p>Prime agricultural areas are intended to be the places in Ontario where all types of agricultural uses can prosper. To support this, the PPS recognizes a wide variety of agricultural uses and associated normal farm practices should be promoted and protected in accordance with provincial standards. Provincial land use policies permit agricultural uses in prime agricultural areas and rural lands. Municipalities may also choose to permit agricultural uses in additional land use planning designations and zones.</p> <p>Certain ancillary activities also form part of the agricultural use if they are considered “value-retaining”, such as drying, cleaning and sorting.</p> <p>In the context of considering compatibility for agricultural uses, a number of guidelines and best practices inform provincial standards, including: Minimum Distance Separation (MDS) Document: Formulae and Guideline for Livestock Facility and Anaerobic Digester Odour Setbacks, 2016</p> <p>In prime agricultural areas and rural lands, the policies of the PPS direct that new land uses, including new or expanding livestock facilities, shall comply with the MDS formulae.</p> <p>MDS is a land use planning tool implemented by municipalities to calculate reciprocal setback distances between livestock facilities, anaerobic digesters and other surrounding land uses. The tool is intended to address odour compatibility for livestock facilities and anaerobic digesters. It does not apply to other agricultural uses, such as mushroom or cannabis operations. Nor was it designed or intended to address other potential disturbances from livestock facilities and anaerobic digesters such as noise, dust, or flies, etc. For more information on MDS, please refer to the Minimum Distance Separation (MDS) Document, 2017.</p>	<p>Does an agricultural use include agriculture-related and on-farm diversified uses that might be considered industrial in nature? How are these Guidelines applied to those uses, if at all?</p>
<p>Nutrient Management Act, 2002</p>	
<p>While “Industrial Anaerobic Digestion Facilities” are identified in this Guideline, some anaerobic digestion facilities are located on farms and are considered agricultural uses, not major facilities. Some of the considerations for the agricultural nature of an anaerobic digestion facility may include that some of the feedstocks are agricultural source materials; or that the facility is located on an agricultural operation and is integrated into the activities of the agricultural operation.</p> <p>Some anaerobic digesters, as well as certain greenhouses and livestock facilities, are subject regulations under the Nutrient Management Act, 2002. For more information on nutrient management, please refer to this website on the topic by OMAFRA</p>	

Land Use Compatibility Guideline	Niagara Region Review Comments
Farming and Food Production Protection Act, 1998	
<p>The Farming and Food Production Protection Act (FFPPA) establishes a process to ensure that agricultural operations can appropriately engage in normal farm practices. More specifically, the Act enables the Normal Farm Practices Protection Board (NFPPB) to hear matters related to:</p> <ol style="list-style-type: none"> 1) Practices carried out by an agricultural operation which may result in noise, dust and odour, light, vibration, smoke or flies; and, 2) Municipal by-laws that potentially restrict an agricultural operation from carrying out normal farm practices. <p>The NFPPB is responsible for determining whether an activity in a particular location constitutes a normal farm practice, or whether a municipal by-law restricts a normal farm practice.</p> <p>Decisions issued by the NFPPB must be consistent with any directives, guidelines or policy statements issued by the Minister of Agriculture, Food and Rural Affairs in relation to agricultural operations or normal farm practices.</p> <p>The act defines a normal farm practice as one that:</p> <ol style="list-style-type: none"> 1) “is conducted in a manner consistent with proper and acceptable customs and standards, as established and followed by similar agricultural operations under similar circumstances, or 2) makes use of innovative technology in a manner consistent with proper advanced farm management practices.” <p>Consequently, there is no definitive list of normal farm practices. Relevant information on best management practices related to a specific farm practice may be considered, such as:</p> <ul style="list-style-type: none"> • Understanding and Reducing Noise Nuisance From Stationary Farm Equipment • Using Propane-Fired Cannons to Keep Birds Away From Vineyards • Wind Machines for Minimizing Cold Injury to Horticultural Crops <p>Some agricultural uses may involve activities that are normal farm practices but may not be fully understood or accepted by neighbours or visitors (e.g., the use of propane bird bangers and wind machines for growing tender fruit and grapes, or the spreading of manure as part of raising livestock and maintaining soil nutrients). As a first step, when a complaint is received, OMAFRA staff will offer mediation services in an attempt to address the issue. If a resolution is not successful, then the matter may proceed to the NFPPB for a hearing. Where the NFPPB determines an agricultural operation is following normal farm practices, the Farming and Food Production Protection Act permits an agricultural operation to continue the activity despite potential disturbances. The Farming and Food Production Protection Act does not provide agricultural operations the authority to violate other applicable legislation (e.g. EPA, Pesticides Act, Health Protection and Promotion Act, OWRA). This provides the assurance and flexibility necessary for agricultural operations to succeed in prime agricultural areas while balancing</p>	

Land Use Compatibility Guideline	Niagara Region Review Comments
<p>the needs of rural Ontario with regard to provincial health, safety and environmental concerns. For additional information on normal farm practices, please refer to OMAFRA's website on the topic.</p>	
<p>Agricultural Impact Assessment Guidance Document</p>	
<p>Provincial land use plans for the Greater Golden Horseshoe may require an Agricultural Impact Assessment for certain proposed non-agricultural uses in prime agricultural areas (e.g., settlement area boundary expansions, infrastructure and mineral aggregate operations). This guidance document discusses how to undertake an Agricultural Impact Assessment to improve compatibility between agricultural and non-agricultural uses. It focuses on how a proposed use can avoid or, if avoidance is not possible, minimize and mitigate adverse impacts to the agricultural system. Please refer to OMAFRA's website for more information.</p>	
<p>Guideline on Permitted Uses in Ontario's Prime Agricultural Areas</p>	
<p>To support the implementation of the PPS, the Province has issued guidance on the various land uses that are permitted in prime agricultural areas. These guidelines contain information on agricultural uses, as well as direction on how to improve compatibility for agriculture-related uses (e.g. commercial grain dryers) and on-farm diversified uses (e.g. a welding or woodworking shop). For more information on permitted uses, please refer to the Guideline on Permitted Uses in Ontario's Prime Agricultural Areas.</p>	
<p>Cannabis Production Facilities</p>	

Land Use Compatibility Guideline	Niagara Region Review Comments
<p>For the purposes of this Guideline, cannabis production is the term used to refer to the entire cultivation process (i.e. growing plants, harvesting, drying and storing), whereas cannabis processing refers, for example, to the subsequent manufacturing of edible cannabis, cannabis extracts and cannabis topicals. Sorting and packaging may fall into either category depending on the scale, extent and type of the packaging.</p> <p>The Guideline applies to indoor cannabis production facilities in areas zoned for industrial uses within settlement areas, and all cannabis processing facilities as these facilities are considered industrial uses.</p> <p>Cannabis production facilities may be considered agricultural uses (e.g. the growing of crops and associated value-retaining uses) and are therefore subject to PPS, 2020 policies 2.3.3.2 and 1.1.5.2 d) respectively, which permits agricultural uses and normal farm practices in accordance with provincial standards in prime agricultural areas and on rural lands. Cannabis production facilities in settlement areas and zoned industrial, and cannabis processing facilities are addressed by these guidelines, see more information in Appendix D.</p> <p>The Farming and Food Production Protection Act establishes a process to determine whether a specific agricultural activity is considered a normal farm practice when considering disturbances such as noise, odour, and light. For more information, please refer to OMAFRA's website on the Normal Farm Practices Protection Board.</p>	

Appendix B – Case Study Application

As proposed, the draft Land Use Compatibility Guideline will adjust the classifications of industrial facilities from three to five, as well as significantly increase both the minimum separation distance (MSD) and area of influence (AOI) associated to all types of employment uses. Regional staff acknowledge that these changes are intended to address the evolving needs of major facilities and constraints experienced by these uses due to encroaching sensitive land uses. However, the proposed changes do not address the implementation challenges that exist with the current D-Series Guidelines.

A major challenge that will persist for municipalities relates to the ability to plan for the integration of employment uses within and/or close to areas planned for intensification and strategic growth. For instance, the Growth Plan sets out for upper-tier municipalities to identify employment areas within settlement areas as a means to protect clusters of existing and planned traditional employment uses (i.e., manufacturing, industrial, transportation, and warehousing) within the urban area.

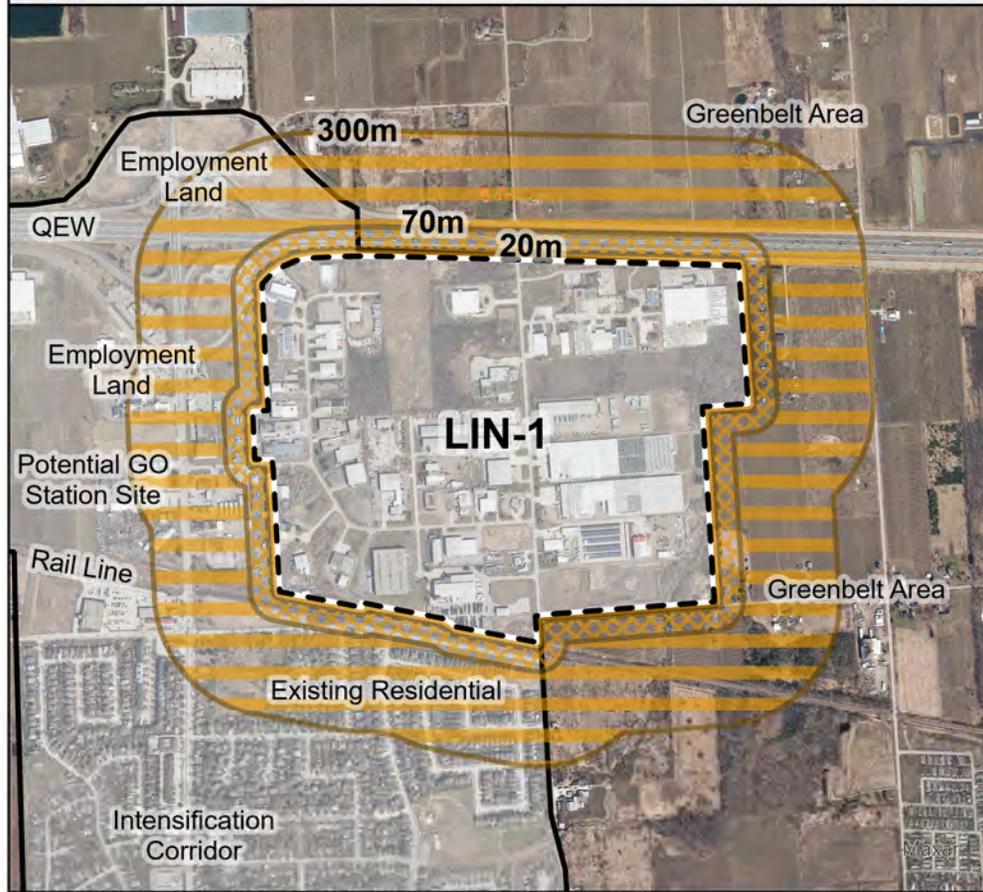
The Niagara Region is in the late stages of identifying its draft employment areas as part of its ongoing municipal comprehensive review (MCR) work program, which is expected for completion in 2022. The Region's MCR recognizes that not all employment is the same. As such, the Region has worked closely with local municipalities and industry stakeholders to sub-group each identified draft employment area into 1 of 3 categories: Knowledge and Innovation, Dynamic, or Core. The purpose of these sub-groups is to reflect the existing and planned employment uses envisioned to occur within them, as well as respect the nearby existing and planned function of the surrounding area.

Based on work completed to date, many draft employment areas are identified for the potential to contribute jobs and support employment in close proximity to strategic growth areas, including Urban Growth Centre ("UGC") and Major Transit Station Areas ("MTSAs"). All identified employment areas have been carefully considered based on existing D-Series MSD and AOI guidance, balancing Provincial and Regional interests, and providing for compatible live work communities.

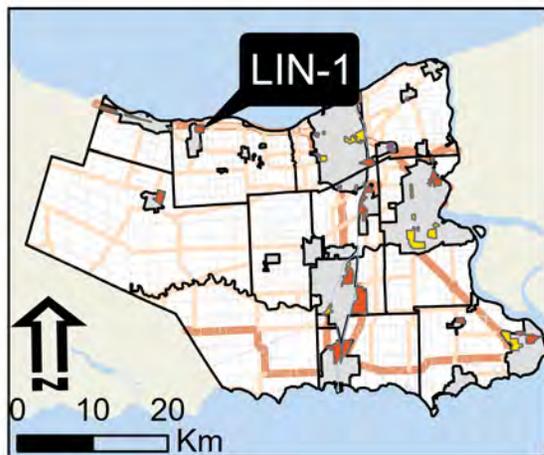
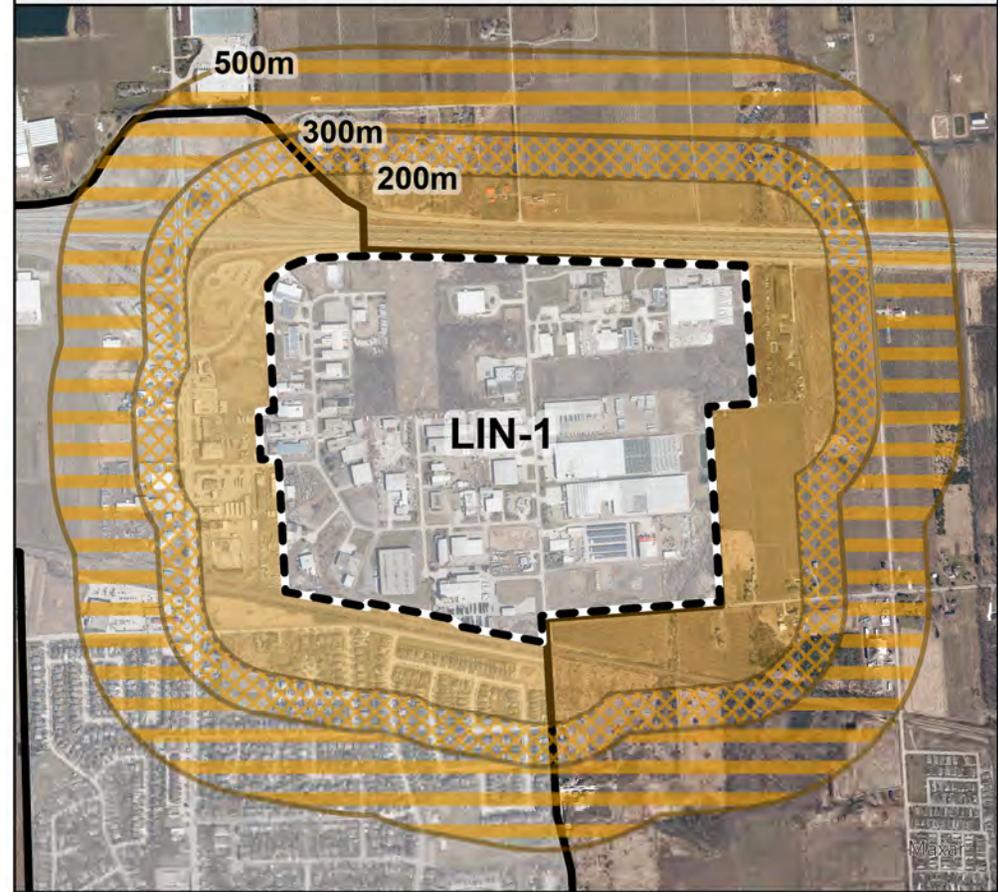
Comparisons of the existing MSD and AOI (under the current D-6 Guidelines) and the proposed MSD and AOI (under the proposed Land Use Compatibility Guideline), for four municipalities within the Niagara Region (Town of Lincoln, City of St. Catharines, City of Thorold, and Township of West Lincoln), are provided below.

Case Example 1: LIN-1 Draft Employment Area

Existing D-6 Minimum Separation Distance Extent



Proposed Land Use Compatibility Guideline Minimum Separation Distance Extent



Context / Issue

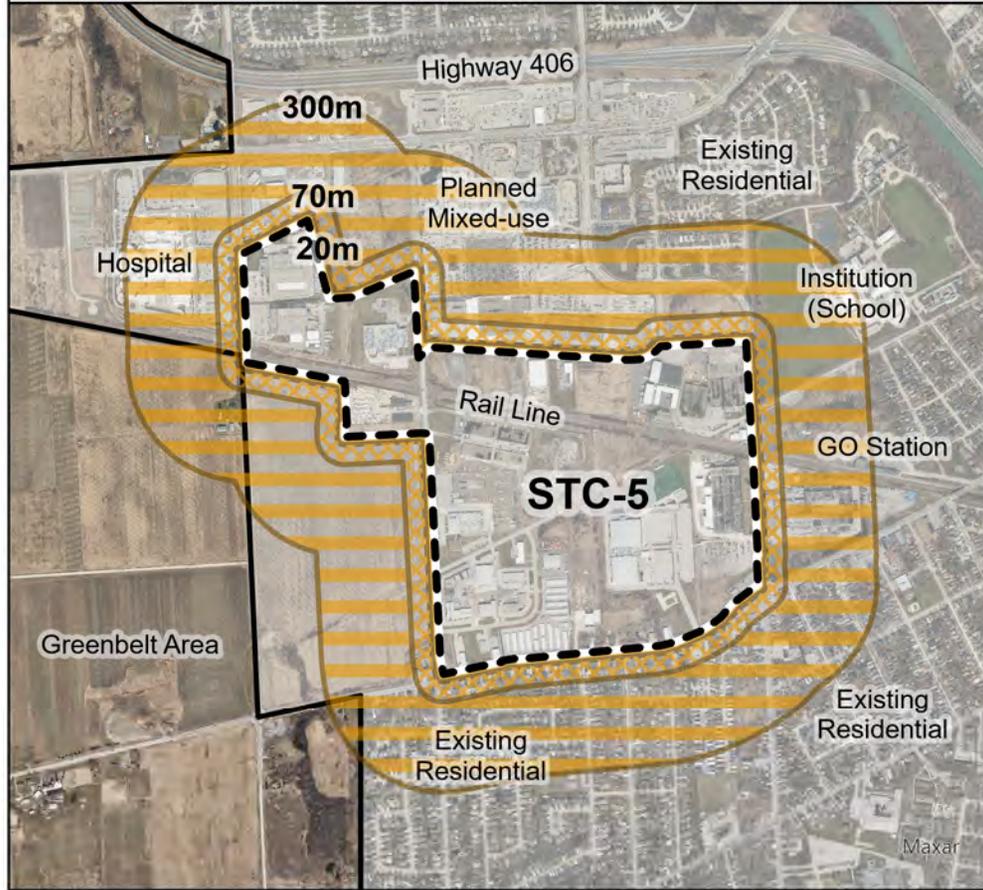
The draft LIN-1 Employment Area is located within the Beamsville GO Secondary Plan Area of the Town of Lincoln. The Town and Region recognize the importance to protect this employment area due to limited employment land supply within the Town, as well as its increased conversion pressures due to its proximity to a future potential GO Station site and QEW. As it exists, the draft employment area is mostly comprised of manufacturing, wholesale trade, construction, and retail trade employment uses. Given the presence of these uses, the proposed Guideline MSDs will add red tape that may impede the ability to develop transit-supportive densities within the secondary plan area.

Legend

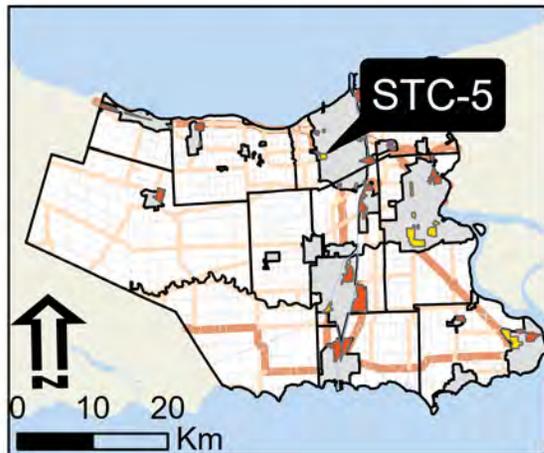
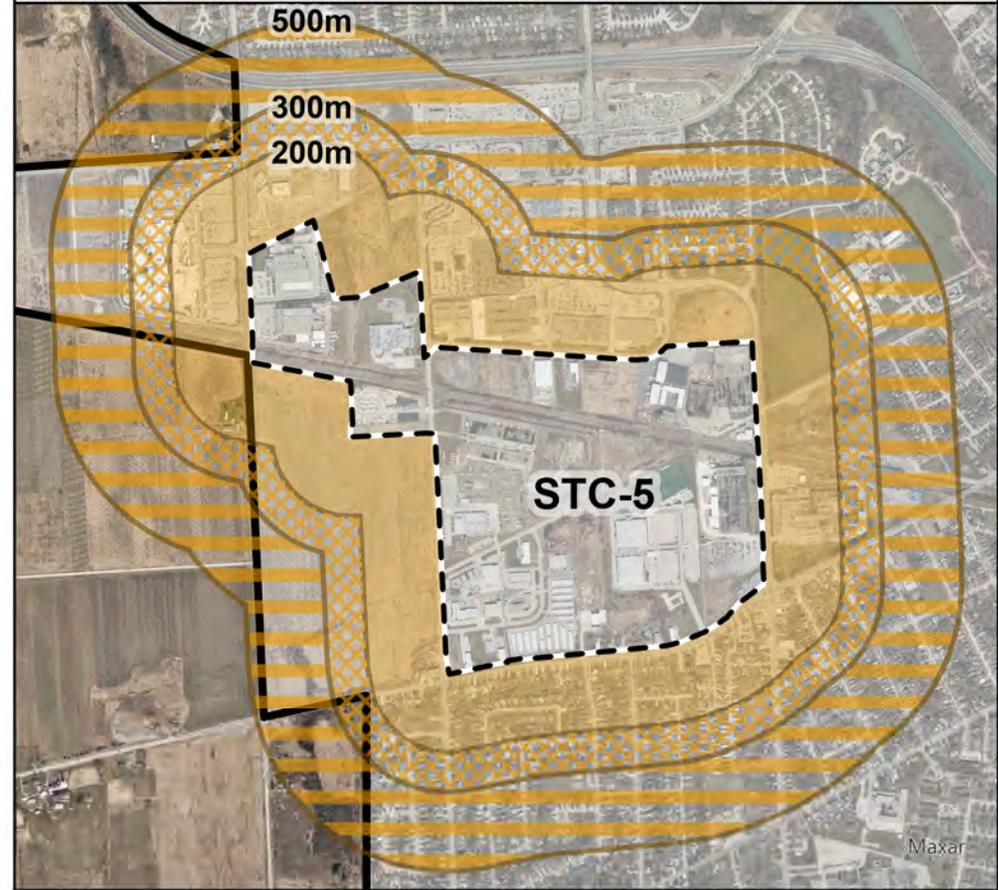
-  Urban Area Boundary
 -  LIN-1 Draft Employment Area
 - Minimum Separation Distance**
 -  Class I
 -  Class II
 -  Class III through V
- Page 111 of 121

Case Example 2: STC-5 Draft Employment Area

Existing D-6 Minimum Separation Distance Extent



Proposed Land Use Compatibility Guideline Minimum Separation Distance Extent



Context / Issue

The draft STC-5 Employment Area is located within the St. Catharine's Transit Station Secondary Plan Area. The City and Region recognize the importance of protecting this employment area due to the City's limited employment land supply. These lands are desirable to a range of employment uses due to their proximity to population services (hospital), Downtown amenities, and transportation infrastructure (GO Station and Highway 405). The secondary plan plans for employment uses that compliment this Major Transit Station Area. As proposed, the new Land Use Compatibility Guideline MSDs will significantly impact the viability / marketability of these employment lands, as well as the ability to accommodate transit-supportive densities within secondary plan area vicinity.

Legend

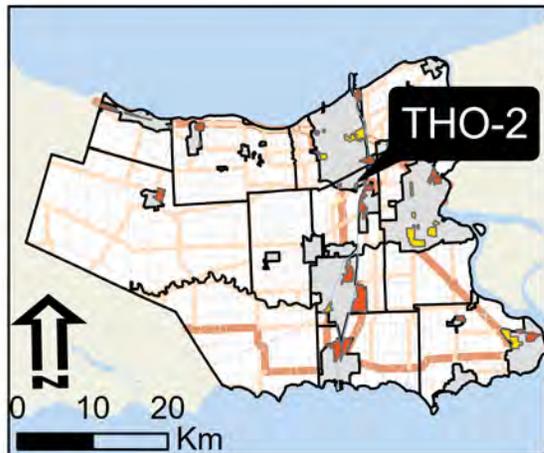
- Urban Area Boundary
- STC-5 Draft Employment Area
- Minimum Separation Distance**
- Class I
- Class II
- Class III through V

Case Example 3: THO-2 Draft Employment Area

Existing D-6 Minimum Separation Distance Extent



Proposed Land Use Compatibility Guideline Minimum Separation Distance Extent



Context / Issue

The draft THO-2 Employment Area is located within the City of Thorold. The draft employment area consists of mostly vacant and unencumbered employment lands with advantageous access to Highway 58. Its envisioned function is to accommodate primarily Class I and Class II facilities, though historically it occupied Class III facilities. These lands are experiencing encroachment from planned sensitive lands uses. Under the current Guidelines for Class I and II facilities, nearby planned sensitive uses experience limited impact from expected MSD requirements. Under the proposed Guideline, planned sensitive uses are nearly entirely captured within the expected MSDs. The proposed Guideline must include mechanisms that recognize existing approvals and development applications that are deemed complete in order to resolve instances of conflict within the new MSDs.

Legend

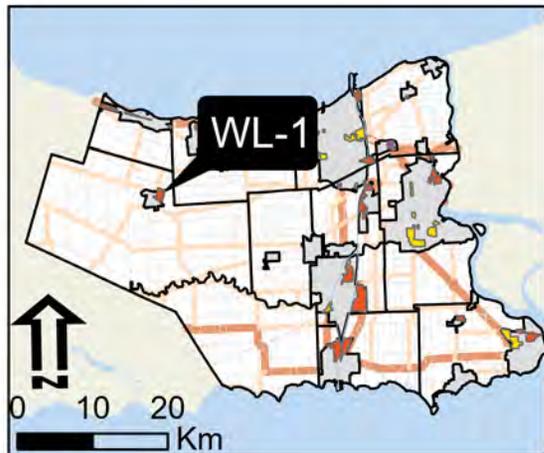
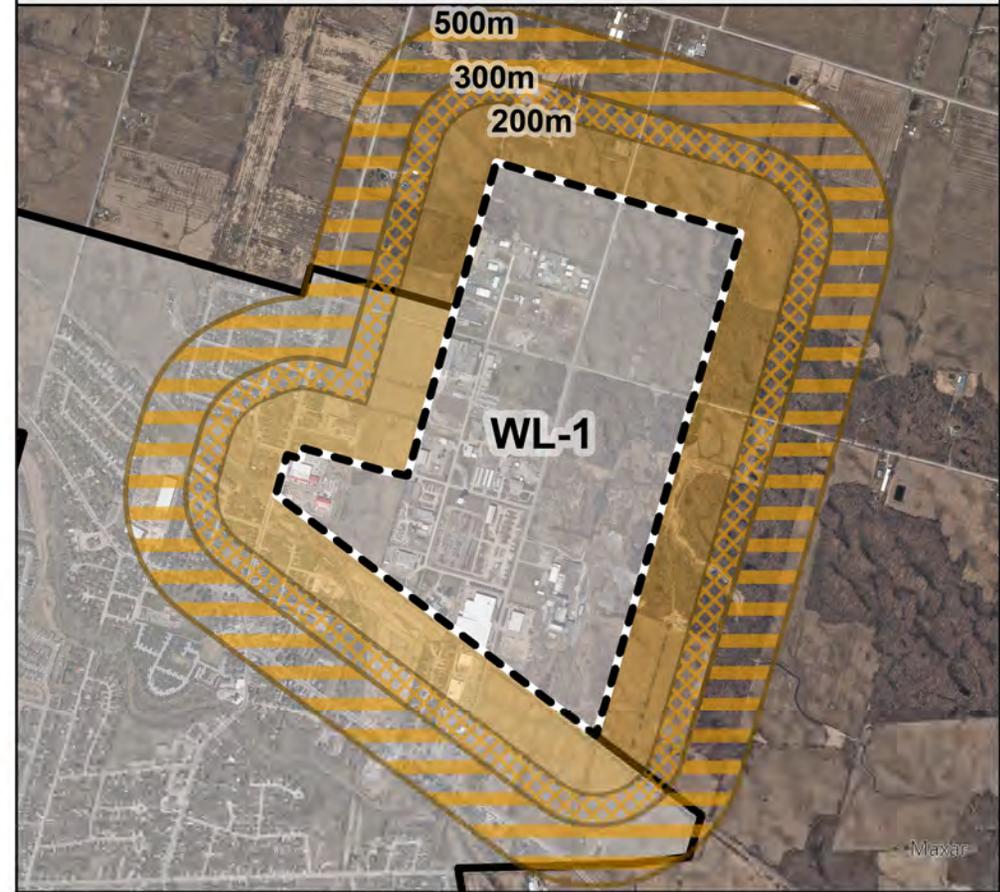
-  Urban Area Boundary
-  THO-2 Draft Employment Area
- Minimum Separation Distance**
-  Class I
-  Class II
-  Class III through V

Case Example 4: WL-1 Draft Employment Area

Existing D-6 Minimum Separation Distance Extent



Proposed Land Use Compatibility Guideline Minimum Separation Distance Extent



Context / Issue

The draft WL-1 Employment Area is located within the Smithville Industrial Park and to the north of the proposed East Smithville Secondary Plan Area in the Township of West Lincoln. Given that the Smithville Industrial Park is the only designated employment area in the Township, Region and Township staff recognize that this area is important for protection. Existing permissions in this area encourage a broad range of industrial employment and prestige employment, which align with existing Class I to Class III major facilities in the D-Series Guidelines. The draft WL-1 employment area consists of largely manufacturing, storage and industrial supply uses. Given the existing uses, and proposed mixed use development of the draft East Smithville Secondary Plan Area to the south, the proposed Land Use Compatibility Guideline Minimum Separation Distances could significantly impede the ability to develop in the East Smithville Secondary Plan Area and impact the ability of future major facilities to be located within the Smithville Industrial Park.

Legend

- Urban Area Boundary
- WL-1 Draft Employment Area
- Minimum Separation Distance**
- Class I
- Class II
- Class III through V

Niagara's Draft Employment Areas (Visual 1)

The Region is in the midst of completing its MCR in support of the new Niagara Official Plan.

As directed by the Growth Plan, the Region is responsible to identify and map employment areas within its Official Plan. The ROP in its current state is outdated and does not map Niagara's existing employment areas.

As part of the MCR work program over the last 3 - 4 years, the Region has worked closely with local municipalities and industry stakeholders to identify and map Niagara's employment areas for incorporation into the MCR for the new Niagara Official Plan. To date, the Region has identified 34 draft employment areas – all of which are located within Niagara's urban areas – that are comprised entirely of clusters of local official plan designated employment lands with existing or planned employment uses. The Region's draft employment areas are shown on the visual titled "Map 1 – Niagara's Draft Employment Areas".

Recognizing that not all employment lands are the same, the Region's MCR further analyzed and categorized each identified draft employment areas into 1 of 3 sub-groups (Knowledge and Innovation; Dynamic; or Core) based on their envisioned role, function, and surrounding contexts. The purpose of this exercise is to ensure that each employment areas is sufficiently protected for appropriate and long-term employment uses that are compatible with their surrounding land use contexts.

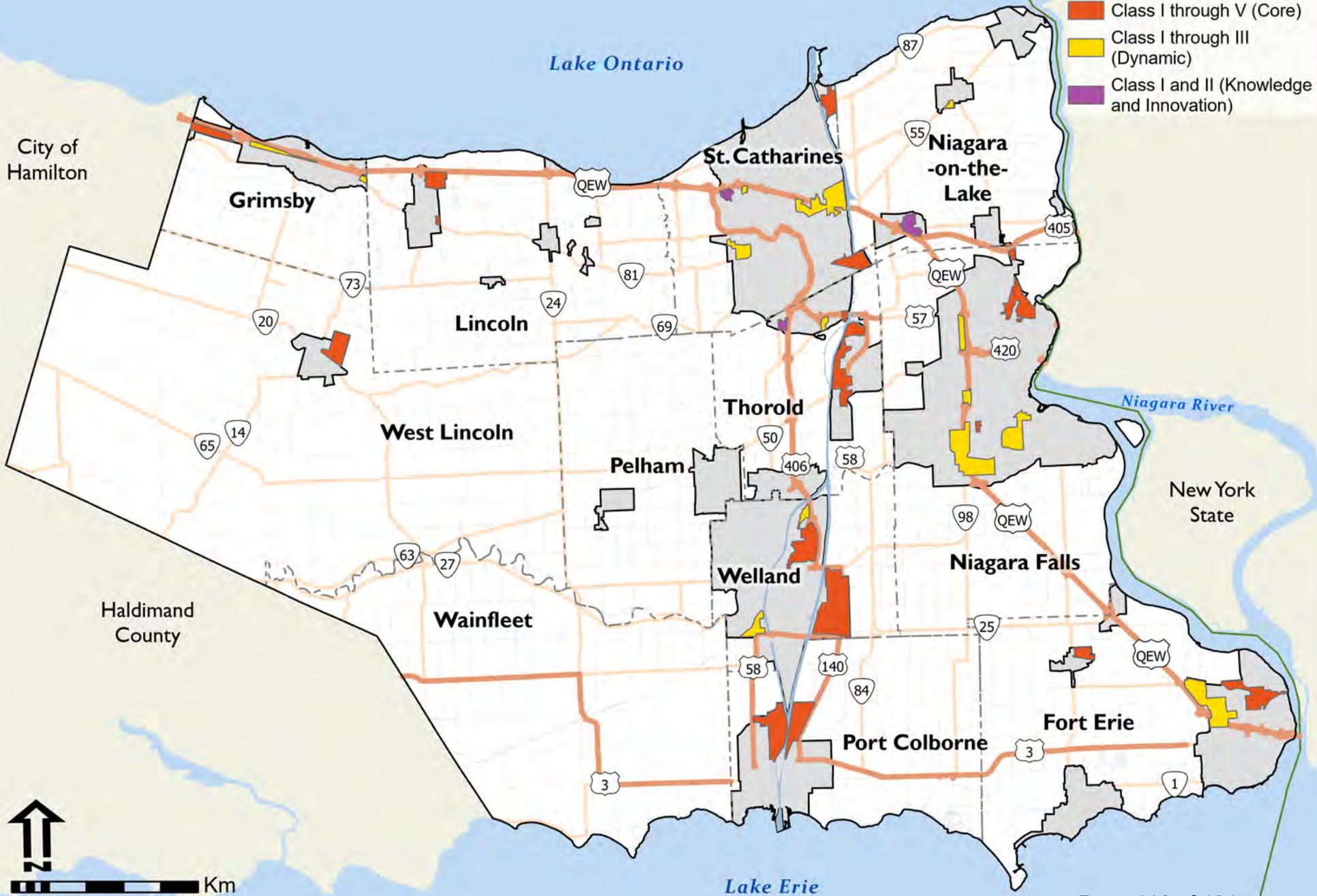
For example, "Knowledge and Innovation" employment areas are envisioned for employment uses that are compatible and can co-exist with sensitive land uses (i.e., Class I and II facilities). Whereas "Core" employment areas are envisioned for solely for all types of employment uses and require distance separation from sensitive land uses in order to operate (i.e., Class I, II, and III facilities).

As proposed, the new Guideline will significantly alter the means by which the Region and local municipalities consider and plan for employment within their respective official plans. As proposed, the new AOI and MSD buffers vastly broaden the catchment area of any type of designated employment land, irrespective to it being within or outside of an employment area.

Map 1 – Niagara's Draft Employment Areas

Legend

- Urban Area Boundary
- Draft Employment Areas**
 - Class I through V (Core)
 - Class I through III (Dynamic)
 - Class I and II (Knowledge and Innovation)



Niagara’s AOI and MSD Coverage: Current & Proposed LUC Guidelines (Visual 2 and Visual 3).

The visuals titled, “Map 2 – Existing D-6 Guideline Distances Applicable to Niagara’s Employment Areas” and “Map 3 – Proposed Land Use Compatibility Guideline Distances Applicable to Niagara’s Employment Areas” demonstrate the coverage of AOI and MSD based on current distances and the proposed Land Use Compatibility Guideline, respectively.

These maps illustrate the worst-case scenarios of all employment facility classes for current and proposed Land Use Compatibility Guidelines based on Niagara’s draft employment area mapping. The AOIs and MSDs match the employment area’s sub-group (Knowledge and Innovation; Dynamic; or Core) as determined through the Region’s ongoing MCR work.

The purpose of these maps is to show the change in Niagara’s urban area coverage based on AOIs and MSDs under current and proposed Land Use Compatibility Guidelines. It is important to note that these maps do not include locally designated employment lands located outside of draft employment areas. In theory, these omitted locally designated employment lands would contribute to an even greater AOI and MSD coverage of total urban area. For the purpose of this submission, only impacts attributed by Niagara’s draft employment areas are being assessed.

Tables 1 and 2, below, quantitatively compare the Region’s urban area coverage shown on Maps 2 and 3 based on draft employment areas and their associated AOI and MSDs with respect to the current distances and proposed Land Use Compatibility Guideline.

It is noted that these numbers do not factor all technical components that would normally be considered through a municipal land needs assessment methodology. Instead, the quantities involve a cumulative total of all lands and do not differentiate between developable lands (i.e., designated greenfield areas) and non-developable lands (i.e., core natural heritage systems; hydro corridors; cemeteries; etc.).

Table 1 - Niagara’s Approximate Urban Area and Draft Employment Area Lands.

Niagara’s Total Urban Area Lands	34,535 ha (85,338 acres)
Niagara’s Total Draft Employment Area Lands	4,001 ha (9,886 acres) <i>12% urban area coverage</i>

Table 2 - Niagara's Total Urban Area Impacted by Draft Employment Areas and Associated Worst-Case Scenario AOIs and MSDs.

Coverage Type	Urban Area Coverage Based On Current Guidelines	Urban Area Coverage Based On Proposed Guidelines	Total Change in Urban Area Coverage
AOI Coverage (AOI + Total Draft Employment Area Lands)	52% 17,883 ha (44,189 acres)	68% 23,490 ha (58,044 acres)	+ 16% + 5,607 ha (+ 13,855 acres)
MSD Coverage (MSD + Total Draft Employment Area Lands)	21% 8,240 ha (20,362 acres)	32% 11,161 ha (27,582 acres)	+ 9% + 2,921 ha (+ 7,220 acres)

As shown in visuals 2 and 3, as well as within Tables 1 and 2 above, the proposed Guidelines will result in approximately 68% of Niagara's total urban area lands being captured within an AOI associated to a single or multiple draft employment area(s). This coverage represents a 16% increase in total urban area coverage in comparison to the current Guideline.

Similarly, the proposed Guideline will result in approximately 32% of Niagara's total urban area lands being captured within a single or multiple MSD coverages associated to a single or multiple draft employment area(s). The coverage represents a 9% increase in total urban areas coverage in comparison to the current Guideline.

To provide context behind these numbers, Niagara's historical urban settlement patterns and employment / industrial uses have a tendency to be located in areas with advantageous to access major goods movement facilities and corridors (i.e., Welland Canal, QEW, Highway 406, etc.). A review of visuals 2 and 3, as well as the previous four Case Examples demonstrate that the proposed Guideline will significantly impact the Region's urban areas, including capturing many well-established residential areas and planned strategic growth areas. The proposed Guideline will prove challenging to both municipalities and the development industry alike, as it will inevitably result in reviewing planning justification that analyzes competing Provincial interests without a clearly distinguished priority between them.

For example, Provincial policies direct for municipalities to plan for complete communities that enable improved quality of living through providing a range of jobs,

connectivity, community services, affordable housing and housing options, and amenities. Proposed AOIs and MSDs will make it challenging for municipalities to plan for and achieve complete communities that offer more than just population-related employment. Further, additional study requirements (i.e., Demonstration of Need Study) also introduced through the proposed Guideline will add complexity and uncertainty to the development review and approval process, as approximately 68% of Niagara's urban area is impacted by the AOI.

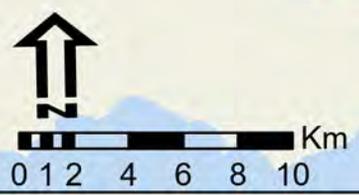
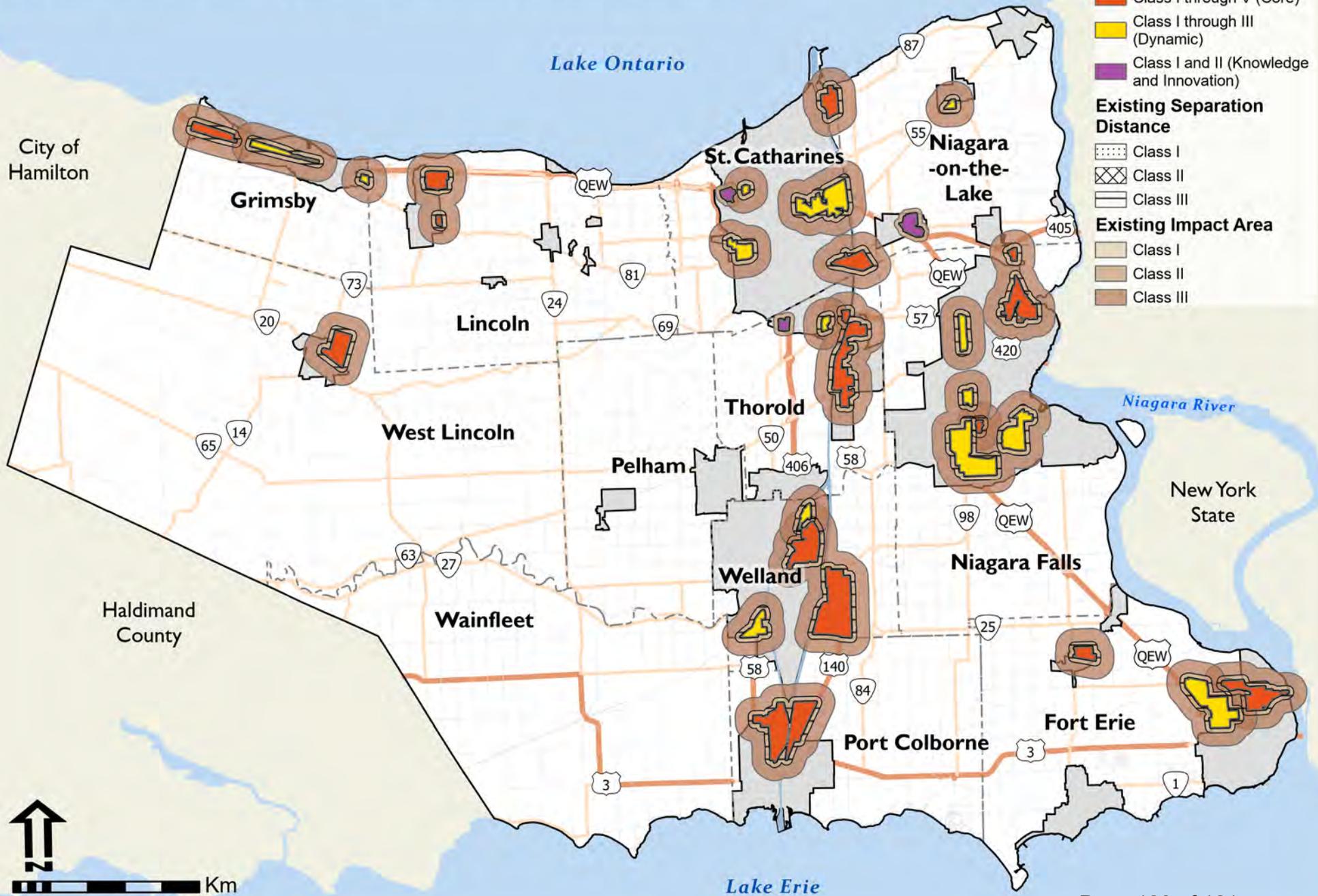
Another potential consequence of the propose Guideline may occur with respect to the sterilization of locally designated employment lands outside of draft employment areas. The increased AOIs and MSDs may inadvertently harm the viability and marketability of these employment lands by limiting the types / classes of facilities that can occur on them. For example, employment lands located within an established urban area will likely be limited to only cater to accommodating Class I facilities, whereas in reality, Niagara has many examples of existing Class I, II, and III facilities located within the urban fabric based on long-standing historical uses.

Additionally, matters are further complicated when considering that current Provincial policies allow for employment area conversions and employment land redevelopment. Both scenarios involve introducing non-employment uses to lands that are solely designated for employment uses. Seemingly, the direction of the proposed Guidelines intends to increase the distance between employment uses and sensitive land uses. However, so long as Provincial policies continue to provide for mechanisms that enable the introduction of non-employment uses into employment areas or onto designated employment lands, these employment parcels will continue to be vulnerable to rapid encroachment / pressures of sensitive lands uses. For instance, a single employment area conversion could, in theory, completely sterilize the remaining employment area due to AOI and MSD requirements based on existing and planned industrial facility classes within the employment area.

Map 2 – Existing D-6 Guideline Distances Applicable to Niagara's Draft Employment Areas

Legend

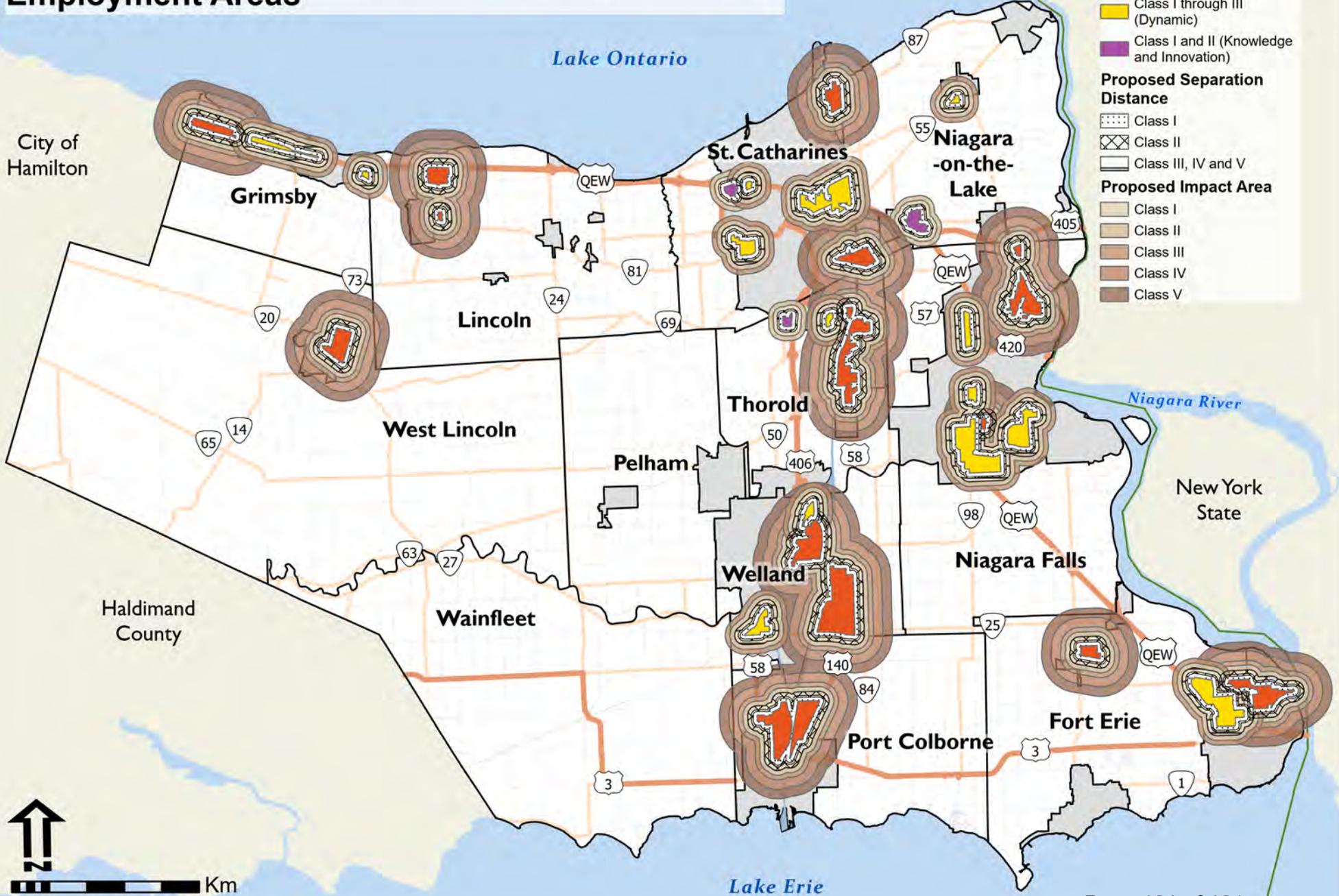
- Urban Area Boundary
- Draft Employment Areas**
 - Class I through V (Core)
 - Class I through III (Dynamic)
 - Class I and II (Knowledge and Innovation)
- Existing Separation Distance**
 - Class I
 - Class II
 - Class III
- Existing Impact Area**
 - Class I
 - Class II
 - Class III



Map 3 – Proposed Land Use Compatibility Guideline Distances Applicable to Niagara's Draft Employment Areas

Legend

- Urban Area Boundary
- Draft Employment Areas**
 - Class I through V (Core)
 - Class I through III (Dynamic)
 - Class I and II (Knowledge and Innovation)
- Proposed Separation Distance**
 - ▨ Class I
 - ▨ Class II
 - ▨ Class III, IV and V
- Proposed Impact Area**
 - Class I
 - Class II
 - Class III
 - Class IV
 - Class V



The Corporation of Town of
G NANOQUE

MOTION / RESOLUTION OF COUNCIL

Date: August 10, 2021		Motion No. 2021 – 128
Subject: Notice of Motion – In-Person Municipal Meetings – As Amended		
Moved by:	Councillor Anderson	
Seconded by:	Mayor Lojko	
<p>BE IT RESOLVED THAT THE COUNCIL OF THE TOWN OF GANANOQUE MAINTAINS VIRTUAL MEETINGS FOR COUNCIL / COMMITTEES OF COUNCIL AND ADVISORY PANELS, UNTIL SUCH TIME AS THE PROVINCE / PUBLIC HEALTH UNIT LIFTS THE REQUIREMENTS FOR WEARING MASKS AND SOCIAL DISTANCING IN INDOOR SETTINGS.</p>		

Carried: Ayes 7 Nays 0
 Defeated:
 Tabled/Postponed:


 Ted Lojko, Mayor

MA s. 246 - When a recorded vote is requested, the Clerk will call for each Councillors vote (Aye or Nay), mark the recorded vote as indicated by the member, and announce whether the motion is carried or defeated. The Mayor will then sign the motion.

RECORDED VOTE:	Aye	Nay
Anderson, D.		
Haird, A.		
Harper, M.		
Kench, M.		
O'Connor, D.		
Osmond, D.		
Lojko, T.		
TOTALS		

Overall NRT OnDemand Service Metrics

Data as of:
Saturday, August 28, 2021

Number of Rides

31,285

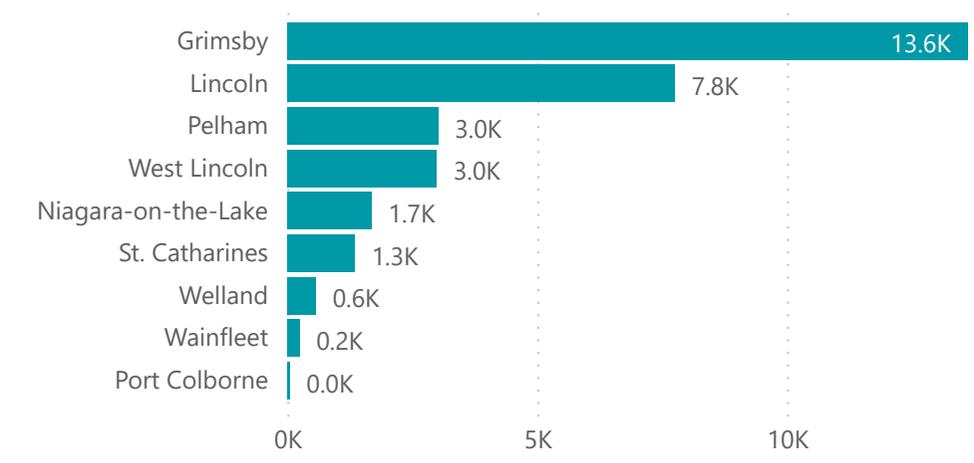
Number of Trips

28,120

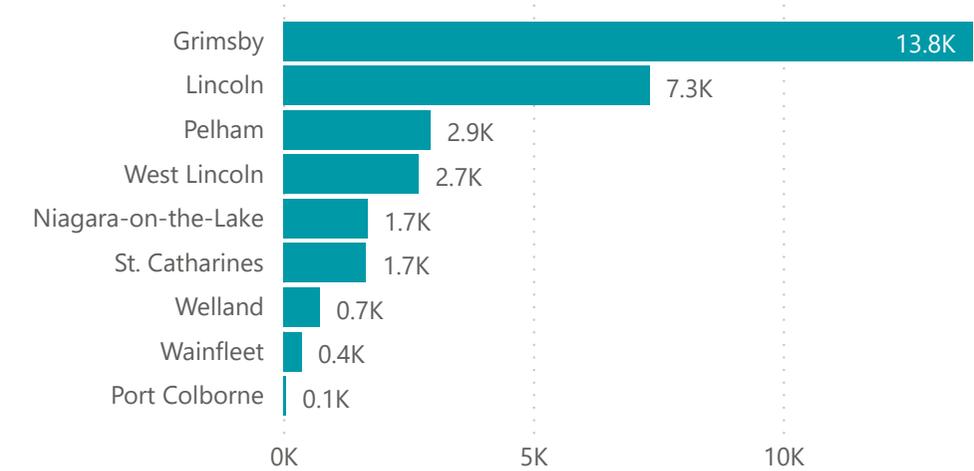
WAV Trips

181

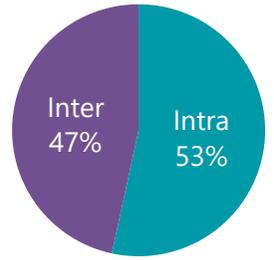
Rides by Origin Municipality



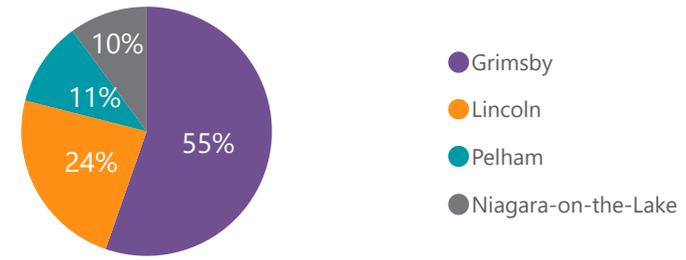
Rides by Destination Municipality



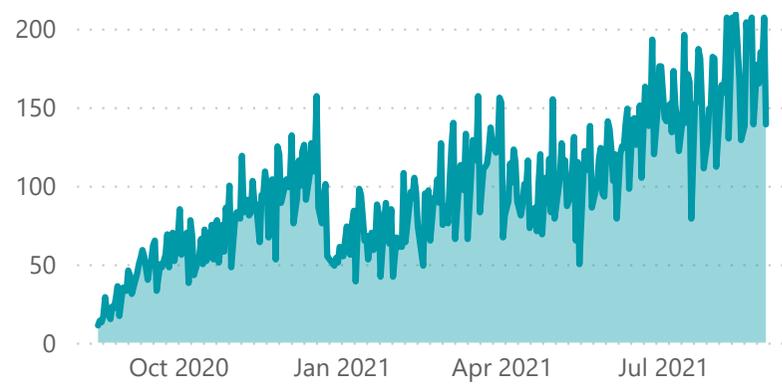
Inter vs. Intra-Municipal Rides



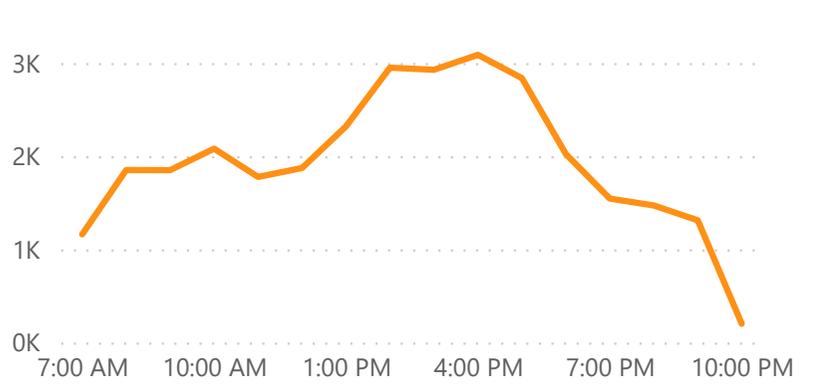
Intra-Municipal Rides



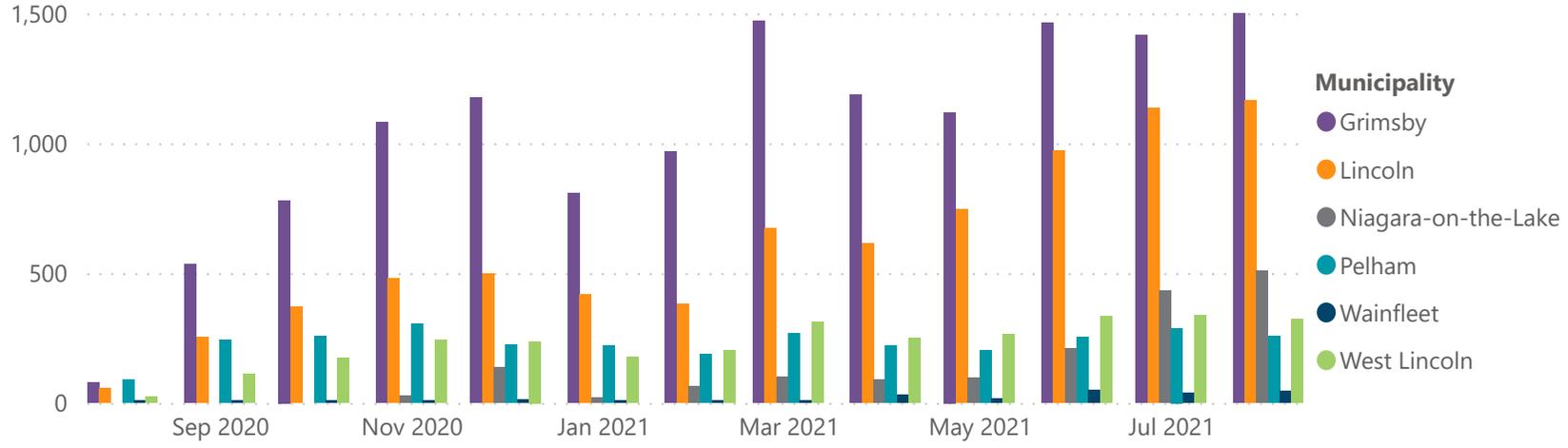
Ridership



Ride Time of Day



Monthly Ridership



Overall NRT OnDemand Service Metrics

Data as of:
Saturday, August 28, 2021

Average Wait Time (min)

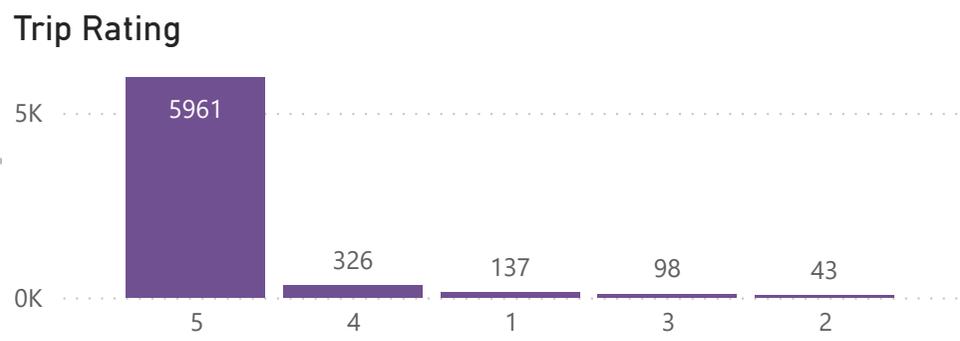
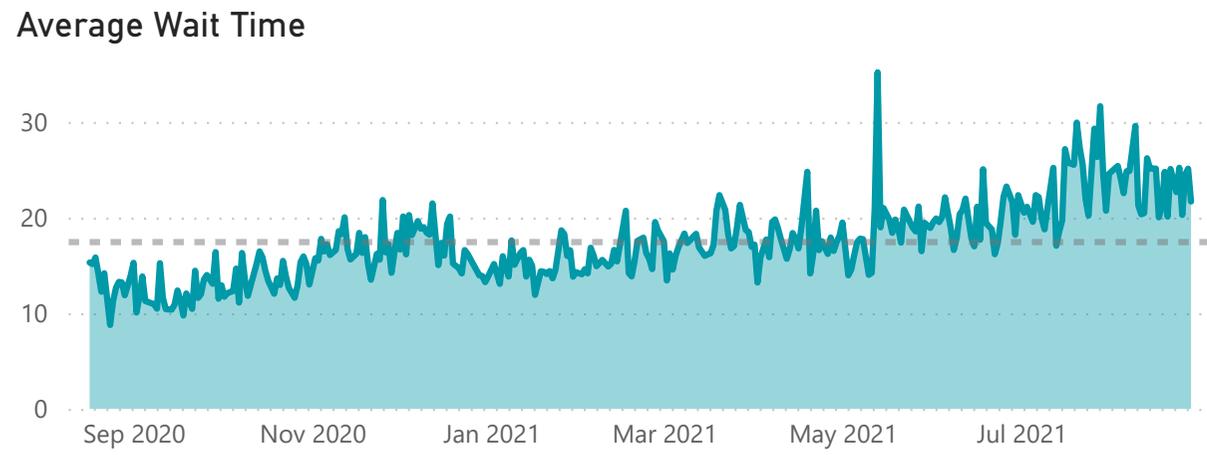
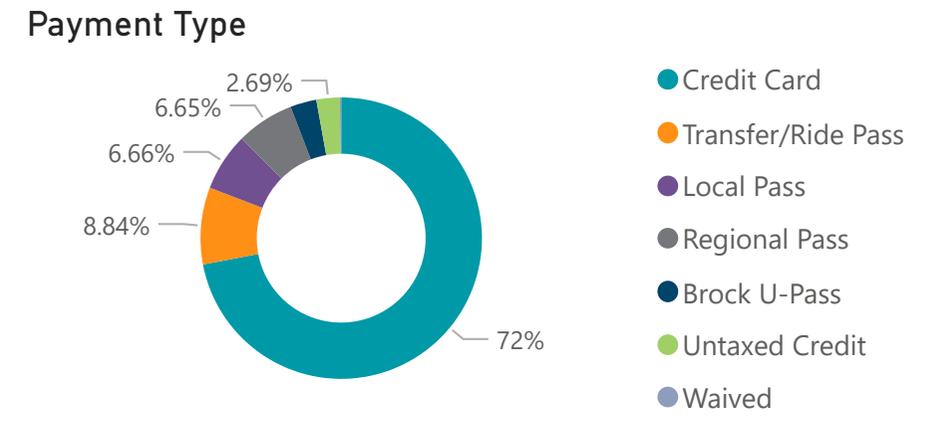
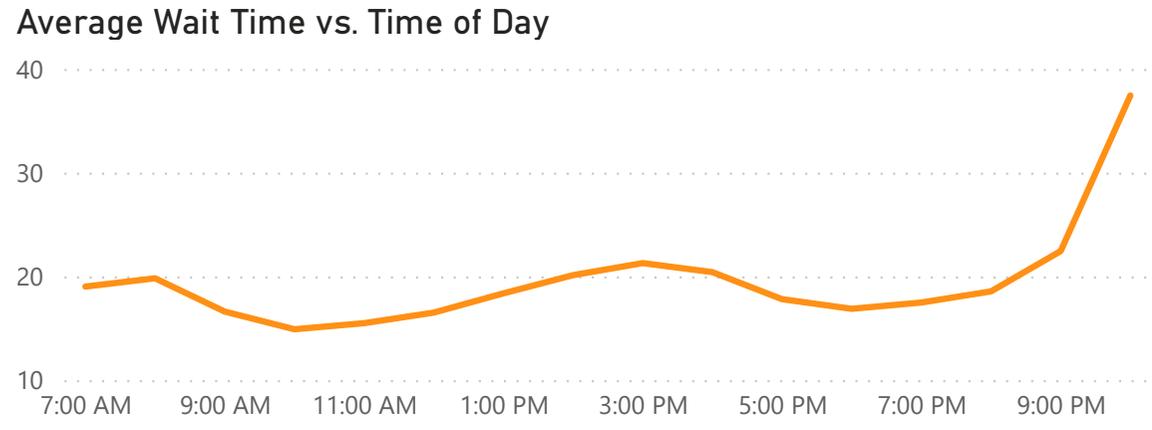
18.60

Average Trip Length (min)

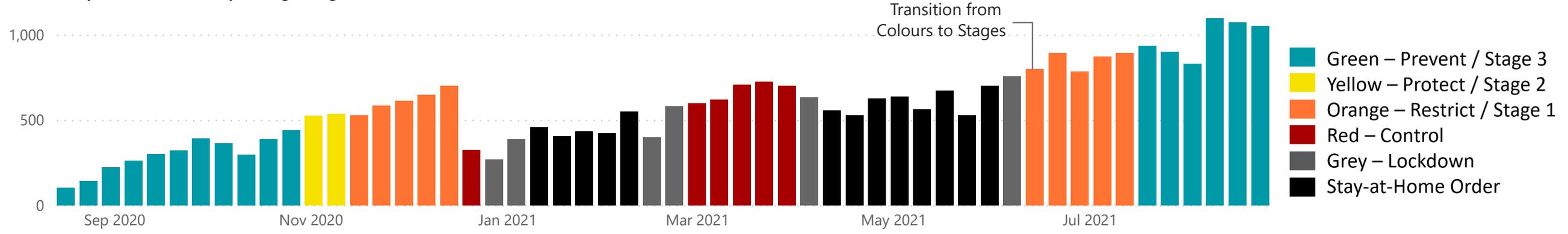
14.49

Average Trip Distance (km)

8.80



Ridership vs. Covid Reopening Stages



NRT OnDemand Service Metrics

Grimsby
Origin and/or Destination Municipality

Due to modification to the database, data for August 30-31 is unavailable at this time.

Saturday, August 28, 2021

Data as of

Number of Rides

18,192

Number of Trips

16,296

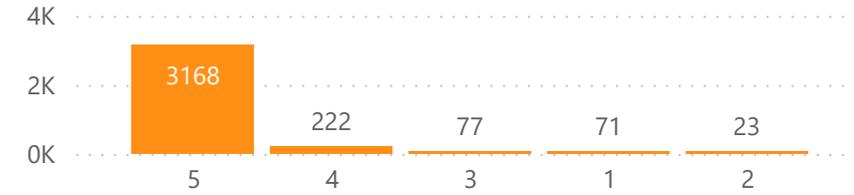
WAV Trips

105

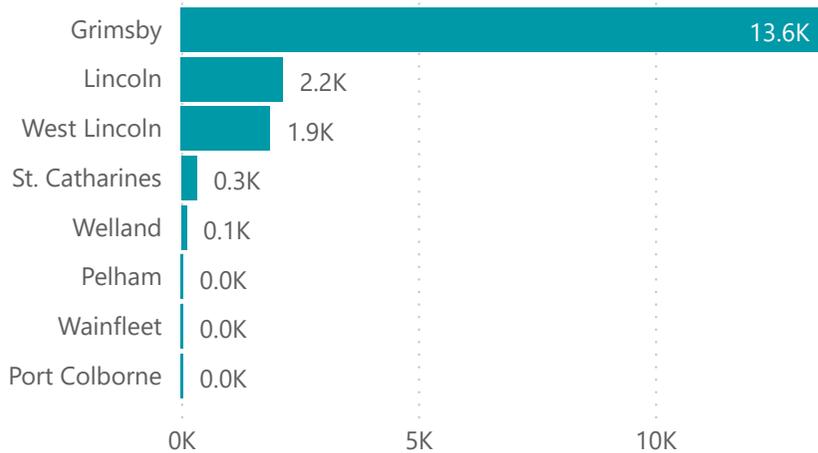
Average Wait Time (min)

18.82

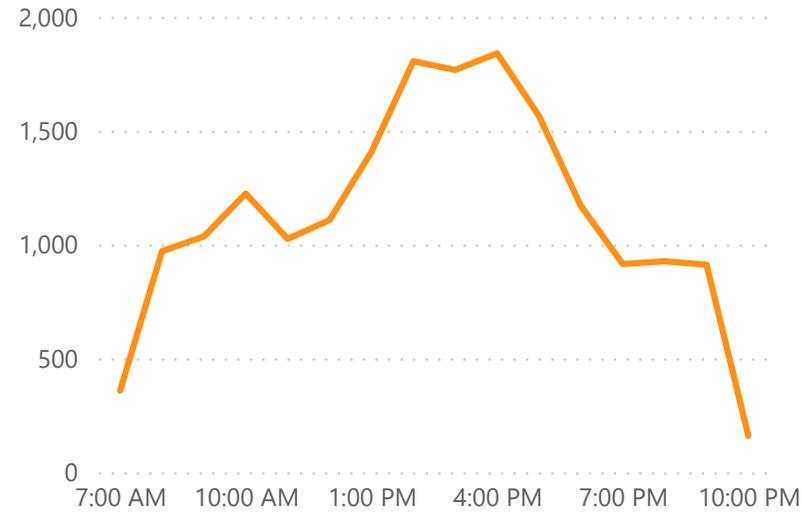
Trip Rating



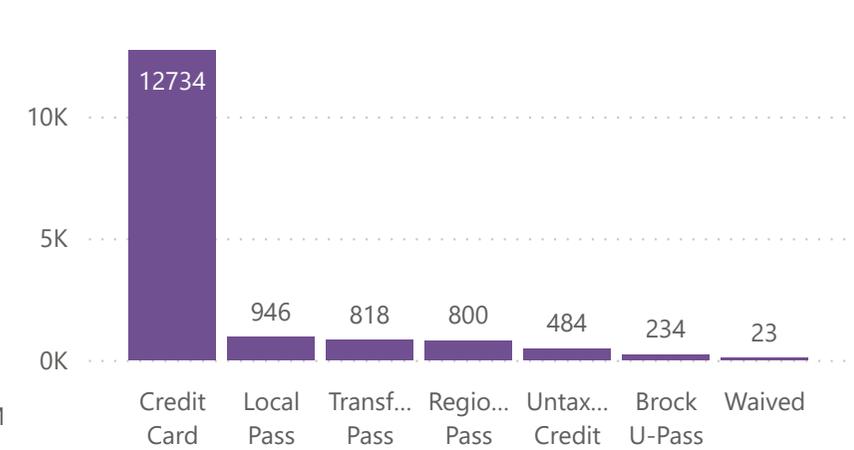
Rides by Origin Municipality



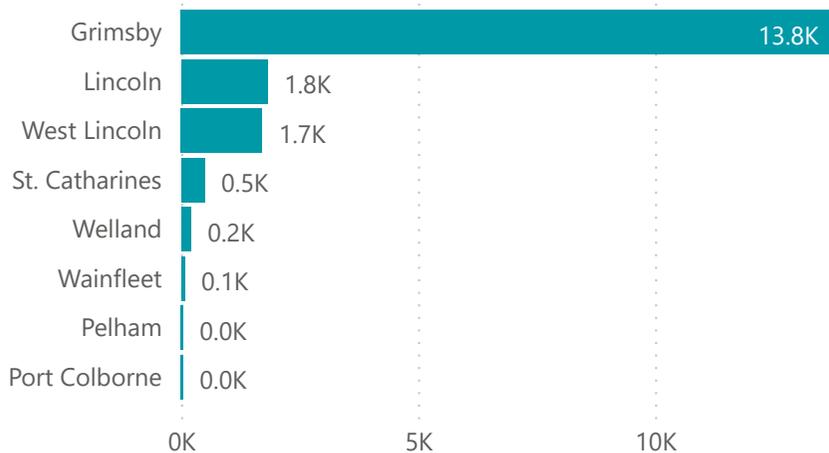
Ride Time of Day



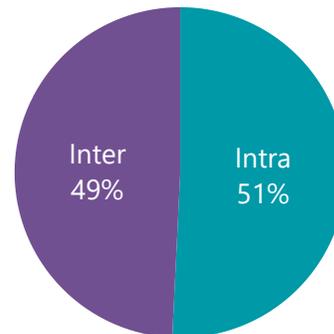
Payment Type



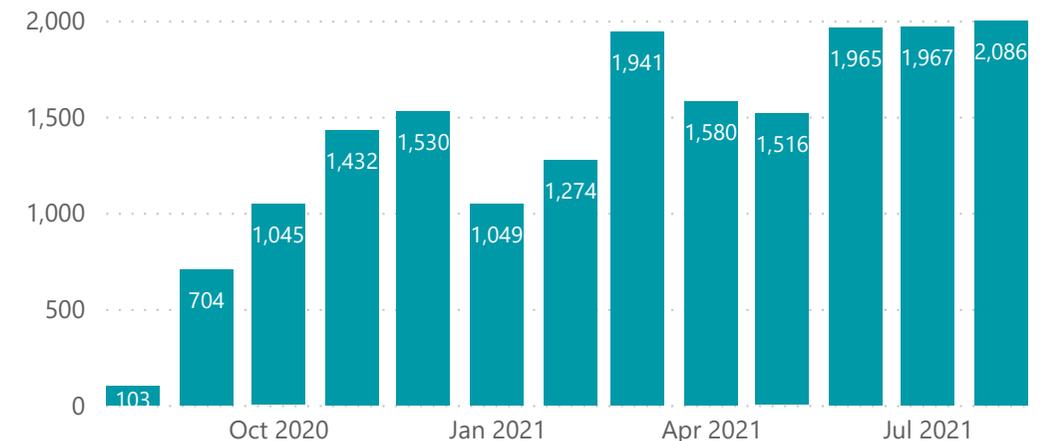
Rides by Destination Municipality



Inter vs. Intra-Municipal Rides



Monthly Ridership



NRT OnDemand Service Metrics

Lincoln
Origin and/or Destination Municipality

Due to modification to the database, data for August 30-31 is unavailable at this time.

Saturday, August 28, 2021

Data as of

Number of Rides

11,129

Number of Trips

9,902

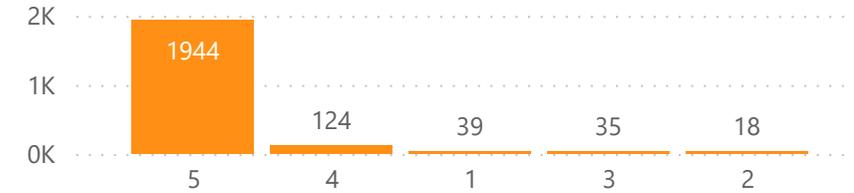
WAV Trips

87

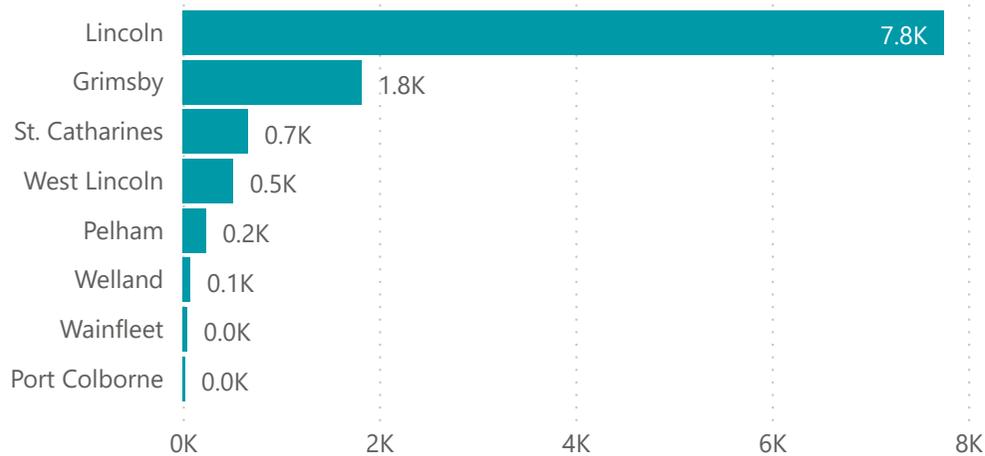
Average Wait Time (min)

19.64

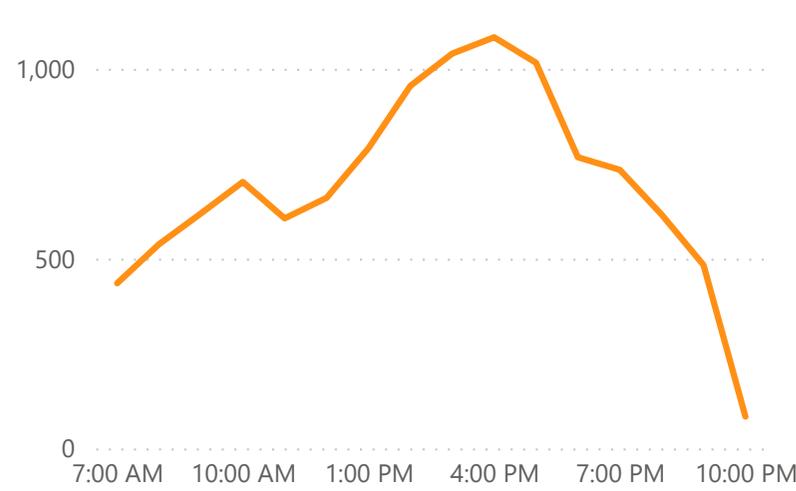
Trip Rating



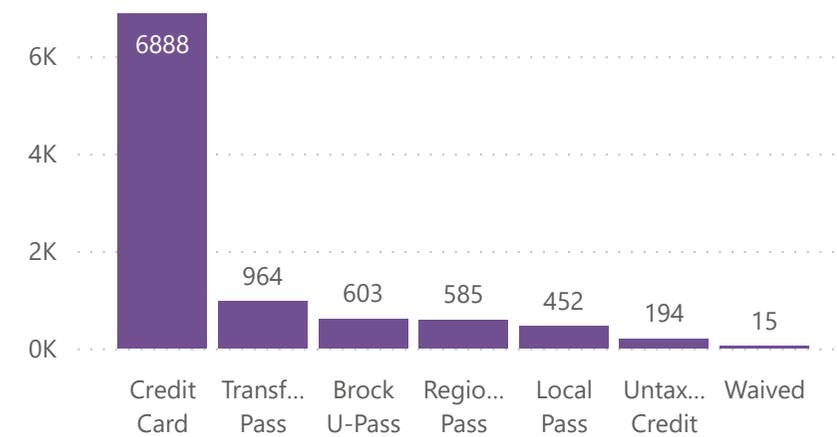
Rides by Origin Municipality



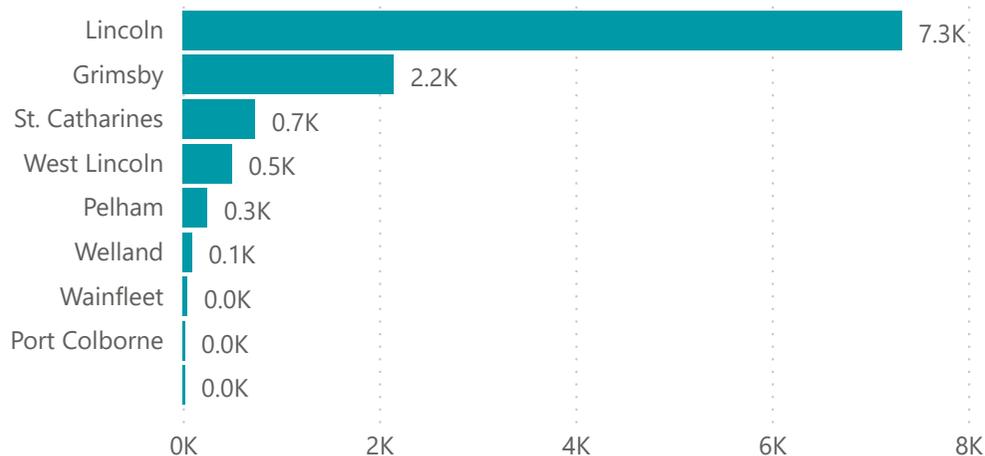
Ride Time of Day



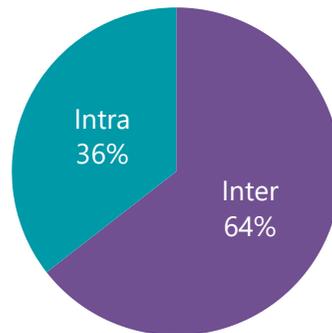
Payment Type



Rides by Destination Municipality



Inter vs. Intra-Municipal Rides



Monthly Ridership



NRT OnDemand Service Metrics

Pelham
Origin and/or Destination Municipality

Due to modification to the database, data for August 30-31 is unavailable at this time.

Saturday, August 28, 2021

Data as of

Number of Rides

4,136

Number of Trips

3,898

WAV Trips

4

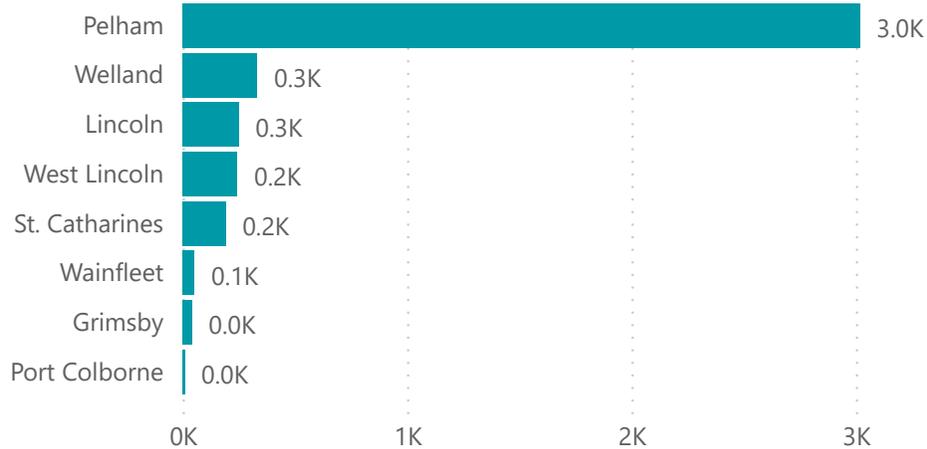
Average Wait Time (min)

17.32

Trip Rating



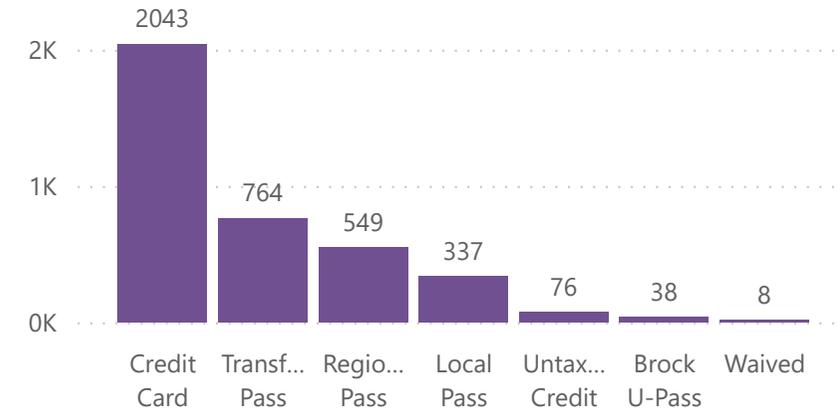
Rides by Origin Municipality



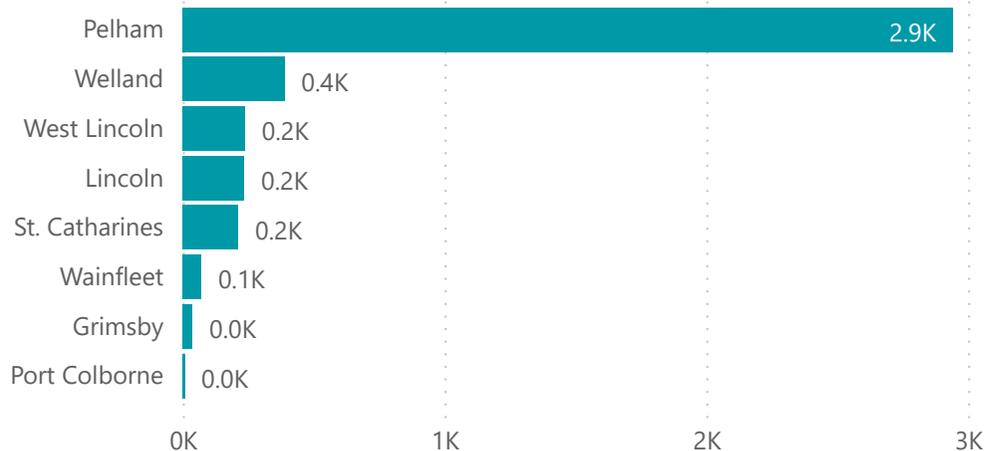
Ride Time of Day



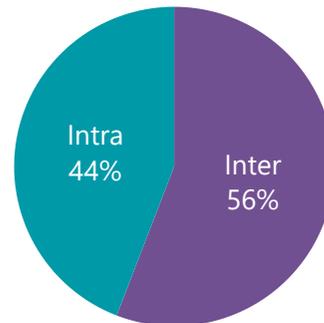
Payment Type



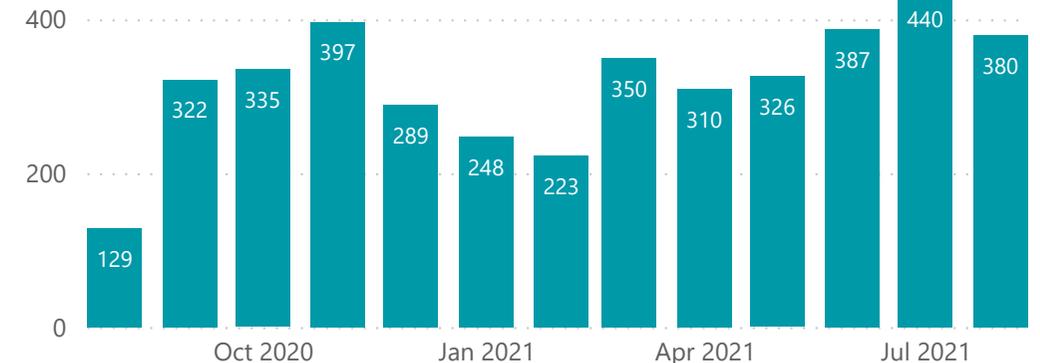
Rides by Destination Municipality



Inter vs. Intra-Municipal Rides



Monthly Ridership



NRT OnDemand Service Metrics

Wainfleet
Origin and/or Destination Municipality

Due to modification to the database, data for August 30-31 is unavailable at this time.

Saturday, August 28, 2021
Data as of

Number of Rides

608

Number of Trips

526

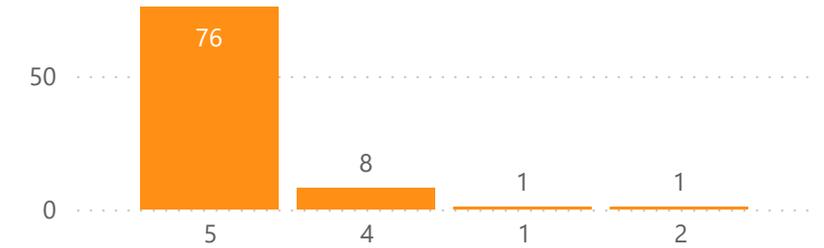
WAV Trips

2

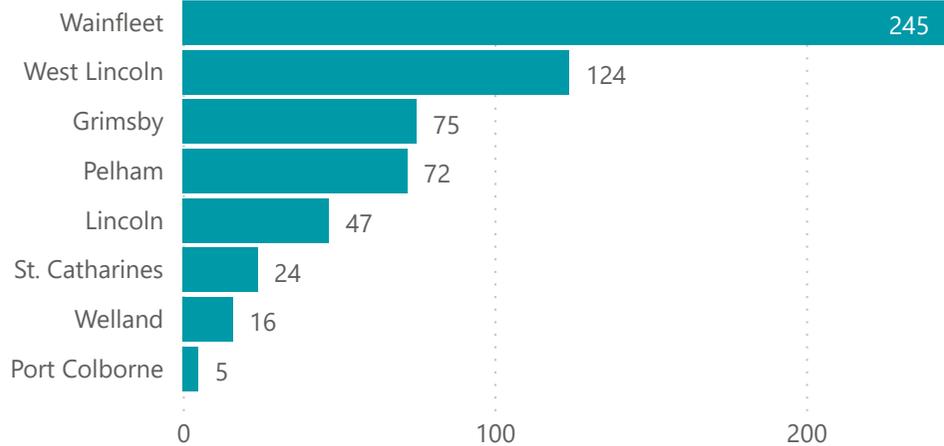
Average Wait Time (min)

25.44

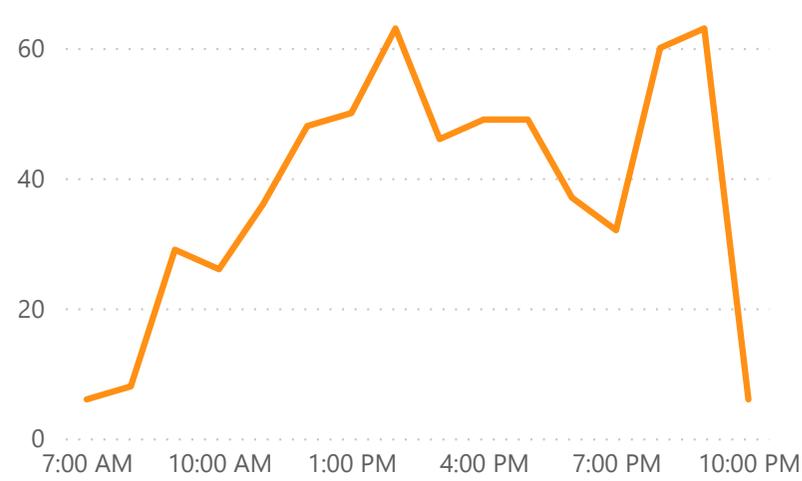
Trip Rating



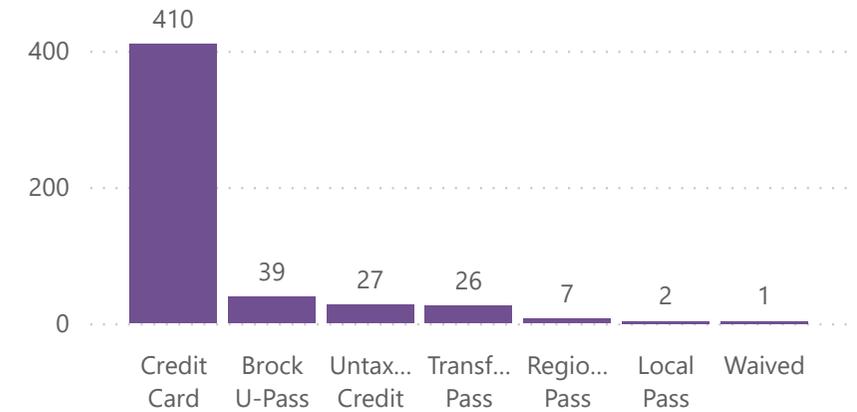
Rides by Origin Municipality



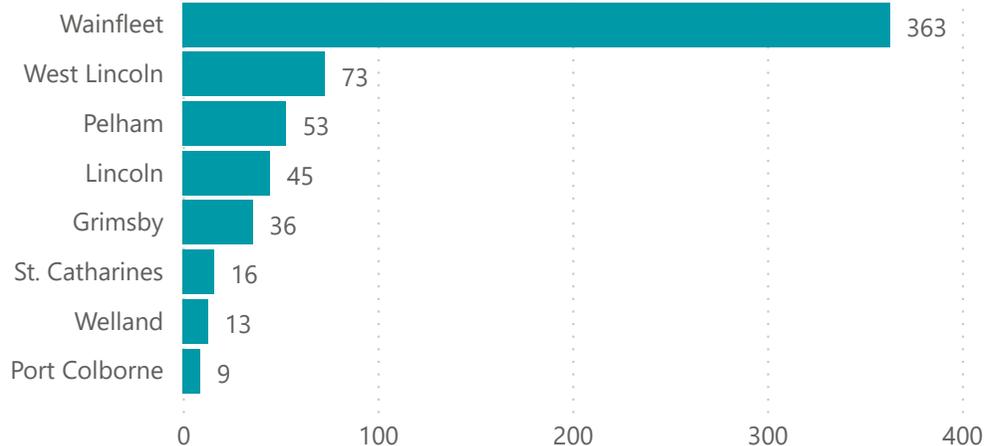
Ride Time of Day



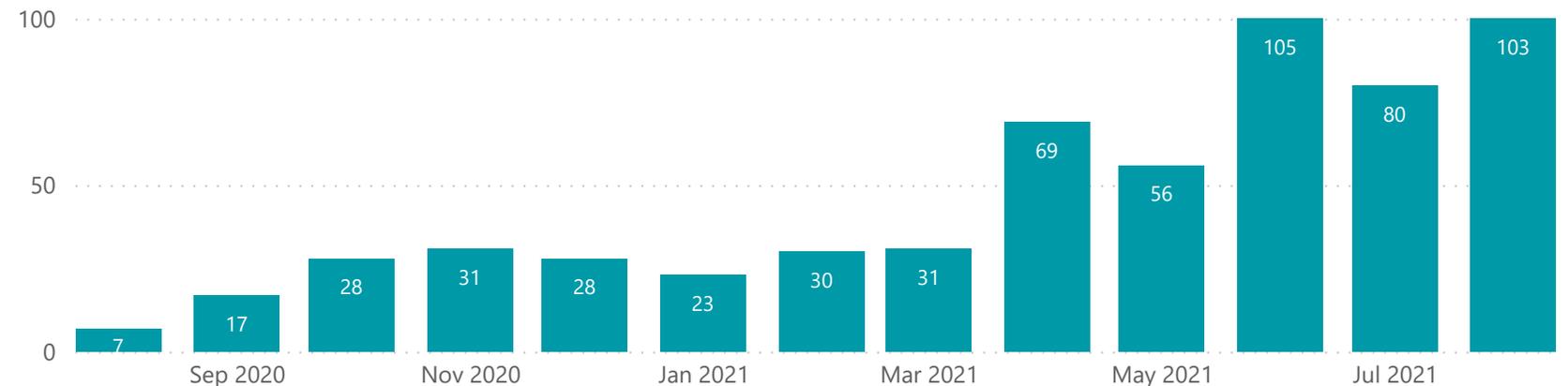
Payment Type



Rides by Destination Municipality



Monthly Ridership

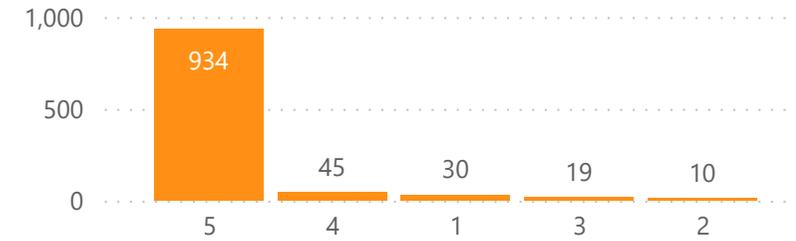


NRT OnDemand Service Metrics

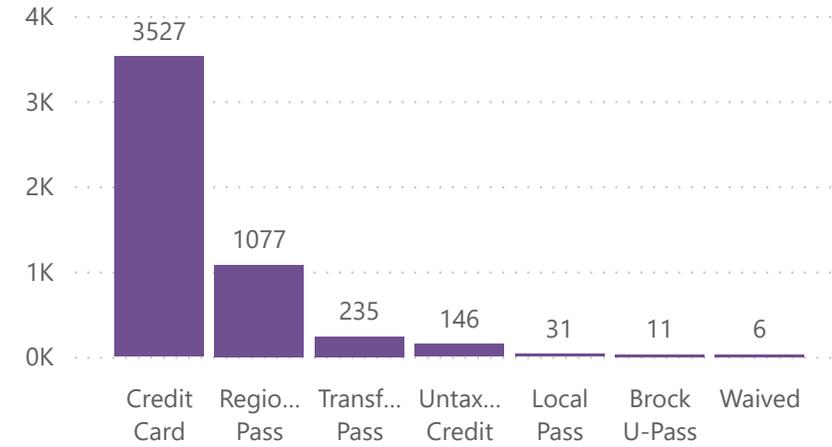
West Lincoln
Origin and/or Destination Municipality

Saturday, August 28, 2021
Data as of

Trip Rating



Payment Type



Number of Rides

5,701

Number of Trips

5,132

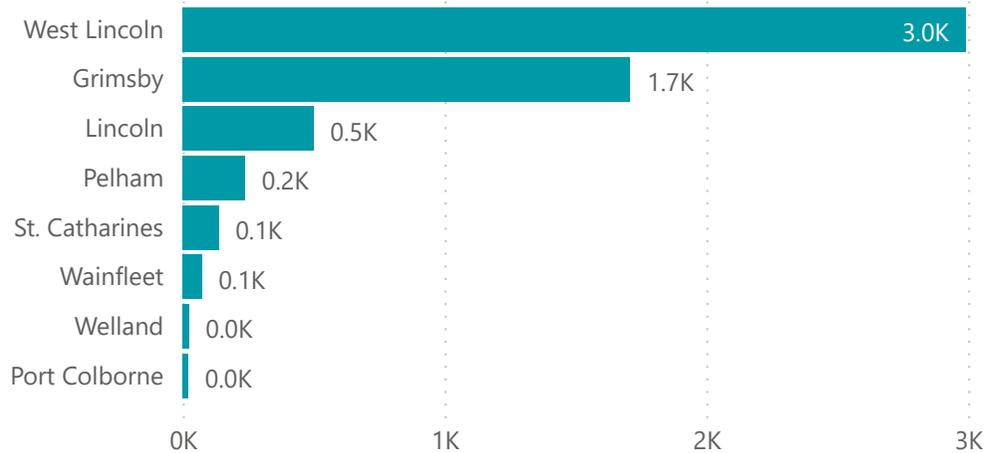
WAV Trips

36

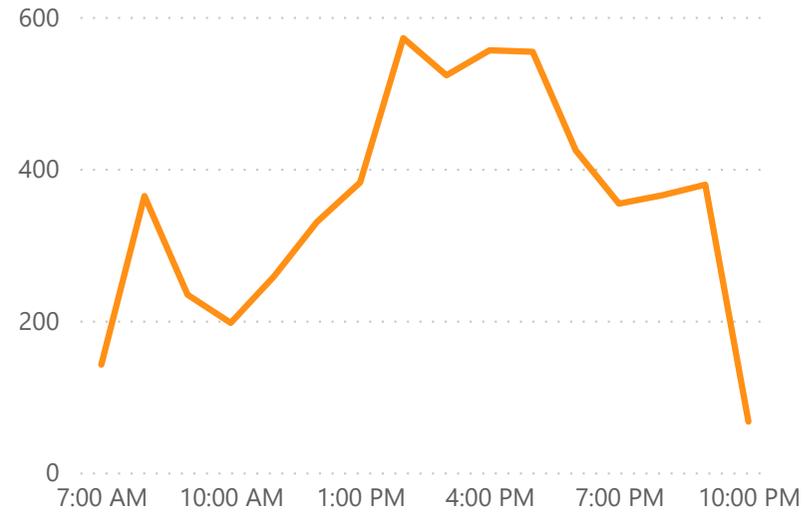
Average Wait Time (min)

21.62

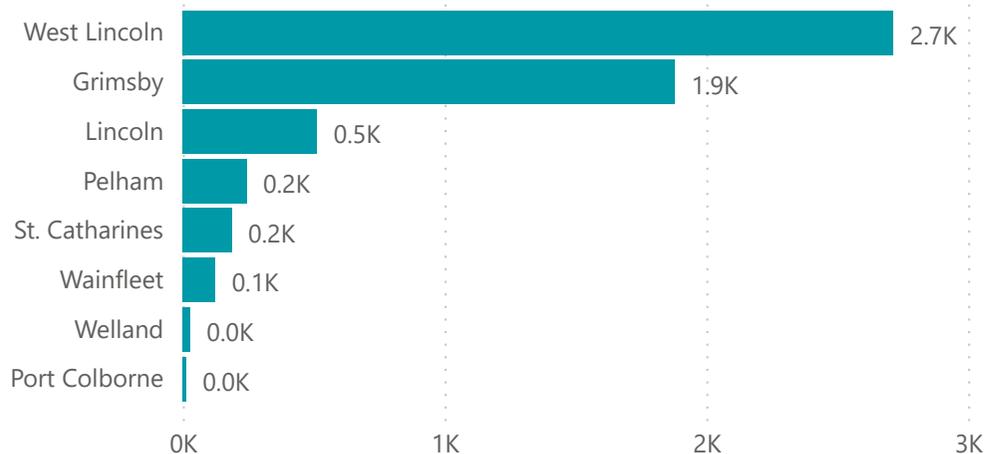
Rides by Origin Municipality



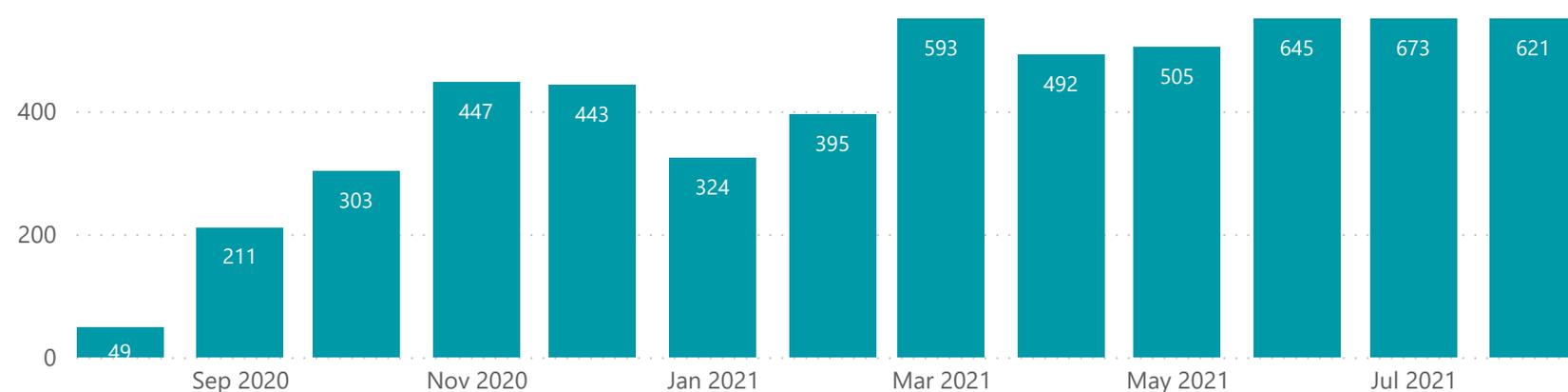
Ride Time of Day



Rides by Destination Municipality



Monthly Ridership



Due to modification to the database, data for August 30-31 is unavailable at this time.



PORT COLBORNE

Corporate Services Department
Clerk's Division

Municipal Offices: 66 Charlotte Street
Port Colborne, Ontario L3K 3C8 • www.portcolborne.ca

T 905.835.2900 ext 106 F 905.834.5746
E amber.lapointe@portcolborne.ca

August 25, 2021

Ann-Marie Norio
Office of the Regional Clerk,
Niagara Region
1815 Sir Isaac Brock Way, P.O. Box 1042
Thorold, ON L2V 4T7

Sent via E-mail: Ann-Marie.Norio@niagararegion.ca

Dear Ms. Norio:

Re: City of Welland Resolution – Request Niagara Region to Maintain Existing Grants and Incentive Programs

Please be advised that, at its meeting of August 23, 2021, the Council of The Corporation of the City of Port Colborne resolved as follows:

That correspondence from the City of Welland regarding the Request to the Niagara Region to Maintain Existing Grants and Incentive Programs, be supported.

A copy of the above noted resolution is enclosed for your reference. Your favourable consideration of this request is respectfully requested.

Sincerely,

A handwritten signature in cursive script that reads "Amber LaPointe".

Amber LaPointe
City Clerk

ec: Niagara Local Municipalities





City of Welland
Corporate Services
Office of the City Clerk
60 East Main Street, Welland, ON L3B 3X4
Phone: 905-735-1700 Ext. 2159 | **Fax:** 905-732-1919
Email: clerk@welland.ca | www.welland.ca

August 10, 2021

File No. 21-109

SENT VIA EMAIL

Niagara Region
1815 Sir Isaac Brock Way
P.O. Box 1042
Thorold, ON L2V 4T7

Attention: Ann-Marie Norio, Regional Clerk

Dear Ms. Norio:

Re: August 10, 2021 – WELLAND CITY COUNCIL

At its meeting of August 10, 2021, Welland City Council passed the following motion:

- “1) THAT THE COUNCIL OF THE CITY OF WELLAND receives for information Report P&B-2021-42; and further
- 2) THAT Welland City Council requests Niagara Region Council to maintain the existing Grants and Incentives Programs as detailed in this Report; and further
- 3) THAT Welland City Council is supportive of adding additional financial incentives for affordable/rental housing; and further
- 4) THAT Welland City Council requests the City Clerk forward a copy of this Report to the Niagara Region, and all municipalities within the Niagara Region for information and support.”

Yours truly,

Tara Stephens
City Clerk

TS:bl

- c.c.: - Local Municipalities
- Grant Munday, Director of Planning & Development Services
 - Steve Zorbas, CAO/Director of Corporate Services

September 3, 2021

The Honourable Doug Ford, M.P.P.
Premier of Ontario
Legislative Building
Queen's Park
Toronto, ON M7A 1A1

Sent via email: premier@ontario.ca

**Re: Comprehensive Marine Strategy
Our File 35.31.99**

Dear Premier Ford,

At its meeting held on August 30, 2021, St. Catharines City Council approved the following motion:

“WHEREAS Canadians depend on our waterways for leisure, sustenance, and their livelihood and our marine sectors contribute approximately \$31.7 billion annually in gross domestic product and account for close to 300,000 jobs; and

WHEREAS the federal government has consulted widely with the provinces and territories, Indigenous peoples, industry, conservationists, and all Canadians in the development of the Blue Economy Strategy; and

WHEREAS Quebec, British Columbia, and the Atlantic provinces have achieved great success in the emerging marine sector economy, and to remain competitive Ontario must capitalize on the economic potential of its marine sector; and

WHEREAS the marine industry is vital to Ontario’s economy through the creation of jobs, increased supply chain efficiencies and resilience, and the ability to reduce greenhouse gas emissions and road congestions;

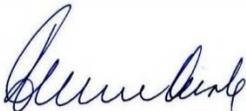
THEREFORE BE IT RESOLVED that St. Catharines City Council calls on the Government of Ontario to create a comprehensive Marine Strategy that will:

- Provide the Great Lakes with modern and competitive infrastructures, and
- Ensure efficient and ecosystem-friendly navigation of the Great Lakes, and
- Deliver sustainable development opportunities for maritime communities; and

BE IT FURTHER RESOLVED that St. Catharines City Council calls on the Government of Ontario to signal their commitment to the importance of the marine sector by appointing or creating an Ontario Marine Strategy Secretariat position to lead the consultations and oversee the strategy; and

BE IT FURTHER RESOLVED that a copy of this motion be forwarded to Premier Doug Ford; Vic Fedeli, Minister of Economic Development, Job Creation and Trade; Caroline Mulroney, Minister of Transportation; local MPPs; the Association of Ontario Municipalities (AMO); Ontario's Big City Mayors (formerly Large Urban Mayors Caucus of Ontario-LUMCO); the Niagara Region; all local area municipalities; MP Chris Bittle; MP Vance Badaway; and Kinga Surma, Minister of Infrastructure.

If you have any questions, please contact the Office of the City Clerk at extension 1524.



Bonnie Nistico-Dunk, City Clerk
Legal and Clerks Services, Office of the City Clerk
:em

cc: Vic Fedeli, Minister of Economic Development, Job Creation and Trade vic.fedeli@pc.ola.org
Caroline Mulroney, Minister of Transportation caroline.mulroney@pc.ola.org
Kinga Surma, Minister of Infrastructure kinga.surmaco@pc.ola.org
Jennifer Stevens, MPP - St. Catharines, JStevens-CO@ndp.on.ca
Jeff Burch, MPP - Niagara Centre, JBurch-QP@ndp.on.ca
Wayne Gates, MPP - Niagara Falls, wgates-co@ndp.on.ca
Sam Oosterhoff, MPP - Niagara West-Glanbrook, sam.oosterhoff@pc.ola.org
Chris Bittle, MP - St. Catharines Chris.Bittle@parl.gc.ca
Vance Badaway, MP - Niagara Centre Vance.Badawey@parl.gc.ca
The Association of Ontario Municipalities (AMO), amo@amo.on.ca
Ontario's Big City Mayors, info@ontariobigcitymayors.ca
The Niagara Region
Local area municipalities
Brian York, Director of Economic Development and Government Relations
Melissa Wenzler, Government Relations Advisor, City of St. Catharines