

Air Quality - Key Findings

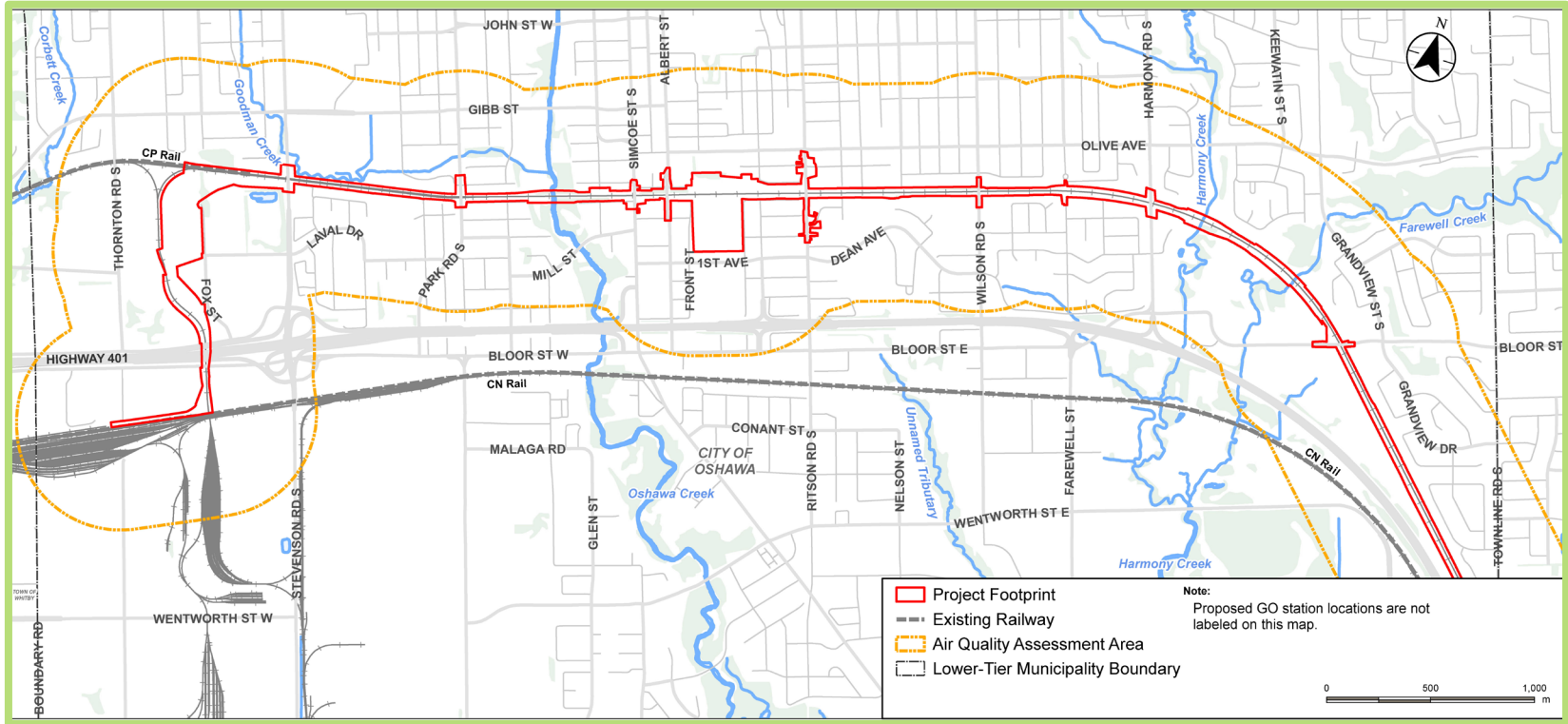


- The Air Quality Assessment Area is comprised of the Project Footprint plus an additional 500 metres from the perimeter of the Project Footprint.
- Ambient air quality in the Assessment Area is influenced by emissions from residential, commercial and industrial sources, as well as vehicular traffic.
- Ambient background concentrations of Contaminations of Interest such as NO₂, benzene, and Benzo(a)pyrene (B(a)P) exceed the 2025 Canadian Ambient Air Quality Standards and Ambient Air Quality Criteria. Background concentrations of these contaminants are generated by major industrial sources such as the iron and steel industry and combustion of petroleum products.
- Vehicle movement, dust generation, exposure of contaminated sites, increased train traffic volumes and fuel combustion at existing GO stations were identified as sources of emissions impacting air quality in the Assessment Area.
- There is potential for temporary increases in air quality emissions associated with the Project's construction and operations.
- Ambient air monitoring will be conducted to confirm the effectiveness of the mitigation measures and allow for adaptive management, as required.



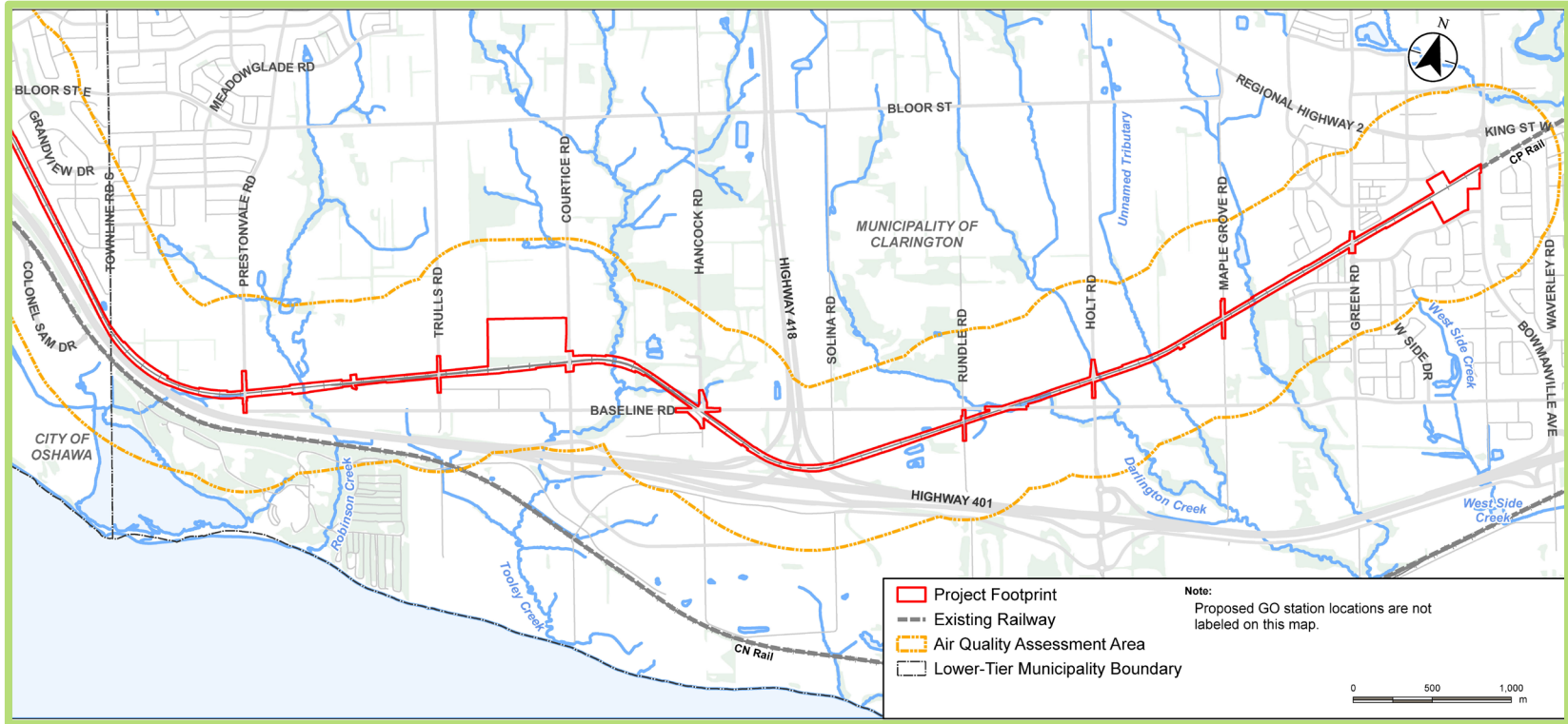
Oshawa to Bowmanville Rail Service Extension

Air Quality - City of Oshawa Assessment Area



Oshawa to Bowmanville Rail Service Extension

Air Quality - Municipality of Clarington Assessment Area



Air Quality - Potential Effects



- Temporary impacts to local air quality due to fugitive dust emissions, construction equipment tailpipe emissions, vehicle emissions and associated dust.
- Construction activities may expose contaminated soils/materials and/or result in the spreading of contaminated materials through dust.
- Operational air quality effects are predicted to exceed NO₂ concentrations of the Canadian Ambient Air Quality Standards but meets the provincial criterion.
- Increase in emissions from GO train operation and increased GO bus traffic volumes.
- Air quality effects from fuel combustion at proposed GO stations, train operations, maintenance activities, GO bus service and parking.



Air Quality - Mitigation Measures



- The Project's air quality impact zone will be defined and all sensitive/critical* receptors will be identified within this area.
- Nearby sensitive/critical receptors will be notified of construction activities anticipated to impact air quality prior to commencement of the activities.
- Dust suppressants such as water sprayers and limiting on-site vehicle speed to less than 20 km/hr will be implemented.
- Installation and maintenance of mud mats at entrances to the project site to manage fugitive dust.
- Preventive maintenance programs will be implemented to engines and emission control equipment.
- In areas where the highest dust emissions are expected, the option of planting of trees and vegetation will be explored.
- Plans that may be developed and implemented include:
 - Air Quality Management Plan
 - Weekly Air Quality Monitoring Reports to effectively prevent unacceptable rates of air emissions

Oshawa to Bowmanville Rail Service Extension

Thank You for Attending!

We appreciate the time you have taken to learn about the EPR Addendum, and we value your opinions. Please provide input online from **June 8 to June 21, 2023** via slido or by emailing DurhamRegion@metrolinx.com.

Let us know if you have questions or comments regarding:

- Project Assessment Area
- Existing conditions or potential environmental effects
- EPR Addendum and TPAP process
- A Notice of EPR Addendum is anticipated to be issued in Fall of 2023 where:
 - Final EPR Addendum and supporting technical documents will be made available for a 30-day review period
 - Following 30-day public review period, the Minister of Environment, Conservation and Parks (MECP) has 35 days to review
 - MECP will issue a notice allowing the proposed Project to proceed or a notice requiring further work to address concerns
 - Statement of Completion will be posted on the Metrolinx website

Stay involved with the Bowmanville Extension by reaching out to the Durham Community Engagement Team below:

- Email us at DurhamRegion@metrolinx.com
- Call us at (416) 202-3900
- Visit our website www.metrolinx.com/bowmanville

Oshawa to Bowmanville Rail Service Extension

