TECHNCIAL MEMORANDUM

ISSUED FOR USE

To:	Christian Greenfield Northern Cardinal Ghent Limited	**Date:**	November 15, 2024
c:	Jim Levac, GSAI	**Memo No.:**	01
From:	David Walmsley, Walmsley Environmental	**File:**	WE2024-14

Subject: **Waste Management Plan (WMP) for the Development at 2170 Ghent Avenue in the City of Burlington**

Introduction & Development Characteristics

Walmsley Environmental consulting services (WE) was retained by Northern Cardinal Ghent Limited (Ghent) to prepare a Waste Management Plan (WMP) to support the development at 2170 Ghent Avenue in the City of Burlington. Ghent is proposing to develop 21 townhouse units which will front onto an internal roadway with access via a dedicated driveway with an individual garage for parking and storage on each property. There will be space for the storage of solid waste collection carts, therefore, at each of the residential units.

Collection will be provided by Halton Region subject to the applicable Standards. Carts will be set out along the roadway in front of each residence by the residents. Acceptance by the Region's Solid Waste Services personnel will require the preparation of a WMP that will provide a clear outline of how solid waste materials will be stored, set out and collected.

Applicable Regional Waste Management Standards

Since the subject development will consist of conventional townhouses fronting onto an internal roadway, the community is classified as a "Residential development"" in the Region of Halton's "Development Design Guidelines for Source Separation of Solid Waste" per the Regional Official Plan. As such the development will be provided collection of Blue Box (BB) recyclables, organics, mixed waste (garbage) materials metal items, appliance and bulk waste collection at the curbside via a either a side- or rear loading curbside collection system. Future residents will be issued carts by the Region and will be required to store them safely between collection days and to set them out in time for the collection vehicle. We understand that the internal roadway will remain a private road.

The Region requires that a Waste Management Plan (WMP) be drafted which will outline how the design of the development will comply with the stipulations outlined in the Standards document for residential developments fronting onto a private roadway. Following is an outline of the applicable requirements.

The waste management requirements which apply to the subject townhouse development are as follows:

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1.1 General Requirements

- Mixed waste (Garbage) shall be set out at each curb in accordance with Section 2 "Collection Service – Residential" of the Halton Waste Collection By-law.
- Mixed waste shall only be placed in an acceptable container for collection (see Section 6 "Receptacle Requirements" of the Halton Waste Collection By-law).
- The schedules and requirements for the collection of waste materials including bulky items and L&Y waste are provided in Schedule A to By-law 123-12.
- One organic waste receptacle will be suppled to residential units by the Region.

1.2 Storage

- An area external to the dwelling unit that is a minimum of 1 m^2 with appropriate ventilation (i.e., garage or external storage unit) will be provided for the storage of at least 1 organic waste receptacle, 2 BB recycling containers and 1 garbage receptacle.

1.3 Collection Point

- Each dwelling unit in the development must have its own collection point of no less than 2.5 m^2 and that is no further than 2 m from the private roadway.
- The collection point must be located along the curb, adjacent to the driveway. It must not be located on a municipal sidewalk and must be directly accessible to the collection vehicle and free of obstructions such as parked vehicles.
- All dwelling units in a development must receive the same method of waste collection.

1.4 Private Road Requirements

- Internal roadways must have a hard surface which is designated to support a minimum 35 tonne, fully loaded waste collection vehicle.
- Roadways will be designed to allow a collection vehicle to enter the site, collect materials and exit the site without having to reverse. If this cannot be provided, then a cul-de-sac or T-turnaround must be provided. Specifications for these features are provided in the Region's Standards document. A T-turnaround has been designed for the development which will comply with the Region's requirements.
- All internal roadways must have a designated minimum width of 6 m.
- The turning radius from the centre line must be a minimum of 13 m on all turns.
- The maximum grade permitted along the collection vehicle access route must be 8%.
- In the event a collection vehicle must reverse, the maximum back up distance is 15 m and must not entail backing up onto a municipal roadway,
- Overhead clearance throughout the private road must be a minimum of 7.5 m and be free from obstructions such as over hangs, awnings, utility wires, and must be kept clear of tree branches.
- Supported structures along the waste collection route must be designed and constructed to support a minimum of 35 tonnes which is the weight of a fully loaded collection vehicle**.** If waste collection vehicles are required to drive onto or over a Supported Structure the Region must receive a letter, certified by an Ontario Professional Engineer, in

- advance of any initial Waste collection, indicating that the supported structure can support a fully loaded waste truck.

Waste Handling Design Considerations

The collection vehicle will enter the subdivision from Ghent Avenue and collect the materials set out on the curb on Block B. It will travel to the T-turnaround and collect the materials on the curbs for the "D units" in Block C. The vehicle will then reverse to reach the "F units: in Block C where it will then move forward to the units in Block A after which it will proceed back onto Ghent Avenue.

Following is the collection schedule for the City of Burlington in which the development is located. On Schedule A to the City's By-law No. 123-12. Amended by By-law 881-15, the schedules for curb-side collection of materials is as follows:

- Garbage is collected every other week with a limit of 3 receptacles per residential unit and a limit of 3 additional receptacles with a Garbage Tag.
- Organic and BB recyclable materials are collected weekly.
- Three bulky items per residence are permitted for collection every other week.
- Leaf & Yard (L&Y) waste is collected every other week from March to December.

In Closing

This reporting memorandum comprises the Waste Management Plan (WMP) for the 2170 Ghent Avenue development and provides the information required to demonstrate compliance with the Region of Halton's solid waste management and collection requirements.

Respectfully submitted,
Walmsley Environmental



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