

October 27th, 2021
City of Hamilton
Department of Public Works
Public Works Committee

Reference Public Works meeting November 1st.

Good afternoon,

It has been brought to our attention that The City of Hamilton is revising its Waste bylaws. A terrific opportunity to look to the future and ensure all potential solutions are reviewed and implemented to address the various climate change initiatives being introduced globally.

Upon reviewing the recommendations, we (Molok North America) have some questions and concerns we would like to address.

There seems to be a significant bias towards a type of receptacle - fork lifted – (1936 technology) and brand - Earth Bin - that precludes alternative options and limits competition, that in most cases meet and or exceed the stated requirements.

When we consider the definition of in-ground as stated at the beginning of the document, our product meets the requirements, but is not mentioned nor is there a picture or detail drawing of it? Would it not present a fairer option to allow alternative in ground or semi-underground options? Provide competition and ensure a fair market pricing and value?

The loading area as defined is very specific to front load dumpsters. In fact, throughout the document one is led to assume that nothing other than a fork-lifted dumpster or a cart will be permitted. The only deviation is with Earth Bin – *a bit of a* conflict of interest on the part of the City when no other option is provided and promoting only one provider of a product by name.

*In section 2.3 – eligible and ineligible properties is a bit confusing. It seems that everything is noted as eligible, however, later in the report it contradicts that or adds some caveats. Can the city be clearer on what falls under the proposed new bylaw?

In section 2.6 it states the committee worked within various legislations, one being the Planning Act. Within the Planning act it requires that all waste receptacles be accessible for people regardless of age, demographic, size or disability. The measurements that are outlined on page 38 - conventional dumpsters - don't meet the accessibility guidelines, nor do the measurements on page 42 – Earth Bin - specified by them? How can these be accepted under the planning act? And Molok® not even considered when it does meet the accessibility guidelines?

The Planning Act, Section 41

Approval of plans or drawings

(4) No person shall undertake any development in an area designated under subsection (2) unless the council of the municipality or, where a referral has been made under subsection (12), the Tribunal has approved one or both, as the council may determine, of the following:

- 1. Plans showing the location of all buildings and structures to be erected and showing the location of all facilities and works to be provided in conjunction therewith and of all facilities and works required under clause (7) (a) **including facilities designed to have regard for accessibility for persons with disabilities.**

2. Drawings showing plan, elevation and cross-section views for each building to be erected, except a building to be used for residential purposes containing fewer than 25 dwelling units, which drawings are sufficient to display, (f) **facilities designed to have regard for accessibility for persons with disabilities.** R.S.O. 1990, c. P.13, s. 41 (4); 2002, c. 9, s. 56 (1); 2006, c. 23, s. 16 (3, 4); 2009, c. 33, Sched. 21, s. 10 (9); 2016, c. 25, Sched. 4, s. 5; 2017, c. 23, Sched. 5, s. 80.

(7) As a condition to the approval of the plans and drawings referred to in subsection (4), a municipality may require the owner of the land to,

- (a) provide to the satisfaction of and at no expense to the municipality any or all of the following:

4.1 Facilities designed to have regard for accessibility for persons with disabilities.

7. Vaults, central storage and collection areas and other facilities and enclosures for the storage of garbage and other waste material

Again, in section 3.1 it states, “access to Waste Diversion Programs and disposal of Garbage must be accessible to all occupants”

3.1.1 Refers to Waste Storage, which is all inside and requires significant infrastructure, expense and strain on the environment – electricity, exhaust, air conditioning which run contrary to the green initiatives being introduced. Why would alternatives that don’t require any of the infrastructure not be an option? Providing advantages to the developer and cost savings to the occupants? A 2-year odour and temperature study conducted by Earth Rangers indicated that there was significantly less odour than the climate controlled room resulting in less odour, reduced cost and from the Molok units with a reduced cost and impact on the environment. The full study and author can be made available if requested, however, please find attached an executive summary.

3.1.6 indicates a developer may opt out of city service but only at the cities discretion – what circumstances would allow for this? This seem to inhibit competition which as stated in a recent Global News piece was one of the reason waste service costs rose, that was stated as an excessive amount and which councillors were concerned as there would be an added cost to the residence.

Within in numerous articles noting what space is required for waste storage, waste allocation, staging and more. Each one is based on fork lifted dumpsters and carts and requires significant space based on number of residences and /or occupants.

The space required can be quite significant and runs contrary to the Provincial requirements of densification. Limiting development opportunities. There are alternatives that allow developers and the City to meet the Provincial mandate of densification. These provide the opportunity to both parties to collaborate in order to maximize their development opportunities – increased units - and ensure that all occupants have the stated access (within 100 meters return) to the waste?

By using these alternatives it allows for a higher return on investments for the developer and the city and the environment. The developer will be able to use less land for waste and recycling at a

lower cost for pick ups, be able to increase density on the site which results in increased revenue. The City will in turn will receive increase tax revenue from the site because of the increased density on the site, reduced number of pickups which in turn decreases the wear and tear on the pickup vehicles. With regards to the environment, since there will be less need for the number of pickups it will decrease the amount of exhaust fumes. All of this results in a WIN WIN WIN situation over the use of fork lifted and carts.

If we use the example - 25 dwelling unit and used a crane lifted system the space required would be that of a parking space – 9'x18'. Within this space would be 1 M5000 for waste, 1 M5000 for mixed recycling and 1 M0rganic. The capacity provided would allow for biweekly service instead of weekly. Reducing frequency, cost and the environmental impacts, freeing up more space while ensuring an assessable waste area.

Please see the picture attached.





In the Province of Quebec crane lifted service is offered through the municipalities to no fewer than 14 municipalities including Montreal and Quebec City to multi-residential occupants.

In fact, Vandreuil Dorion makes crane lifted mandatory through their bylaws, moving towards environmentally responsible options that save valuable space and provide accessible options for the residence. Very similar to the trend we have been seeing in Europe for the past 20 years. A move to crane lifted away from fork lifted.





The aesthetically pleasing design and appearance combined with the crane lifted removal allow for greater flexibility in placement, ensuring the receptacles are conveniently located for all users. Whether in an island, front yard or other high visibility location. Providing safety and convenience for the users.

Finally, Molok North America has been operating in Hamilton for the past 15 years. There are over 150 units in service and more than 50 locations ranging from school, gas bars, quick service restaurants like Tim Hortons, commercial plazas, condo's, multi-residential properties and Places of Worship. That is a tremendous amount of goodwill that will be impacted by the changes outlined in the revised Bylaw.

All of whom have adopted our system to increase their efficiencies and onsite space plus reduce truck traffic and expense. Will the city allow others to introduce environmentally responsible solutions into their developments as others have while meeting the provincial densification and city requirements while looking to environmental solutions for the future?

Thank you for your attention to this and we look forward to further discussion.

Tim Corcoran
Vice President, Business Development
Molok North America Ltd.

Additional information and pictures below

Earth Rangers study executive summary. Full study available upon request.

March 21, 2018

The Earth Rangers Centre for Sustainable Technology (ERC) was retained to complete an independent study of the Molok in-ground waste and organics storage system for its ability to buffer changes in outdoor temperature and thus reduce odours.

The following two (2) findings are discussed in more detail in the report below and represent a testing over one (1) year of measurements.

FINDING 1: Temperatures measured from 50" from the top to the bottom of both the waste and organics Moloks at all times were lower than the average temperature of our temperature controlled waste room. From the top to 25" below the top, temperatures were on average lower than that of our conditioned waste room 78.7% of the time.

FINDING 2: At no time did odours, measured by our calibrated odour meter, directly outside the Molok exceed that of our temperature controlled waste room

Overall, our findings indicate that the Molok outperformed our temperature controlled waste room in slowing decomposition by keeping waste and organics at lower temperatures and reducing odours emanating from Moloks.

Tim Corcoran
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Additional pictures of multi-residential installations in various locations in Canada

Quebec Multi-Residential Examples



MOLOK

Alberta Multi-Residential Examples



MOLOK

Niagara Region Multi-Residential Examples



MOLOK

Hamilton area Multi-Residential Examples



MOLOK