

1899 BROCK ROAD

1899 BROCK ROAD, PICKERING, ONTARIO

WASTE MANAGEMENT PLAN

PRESENTED BY:

**CINI•LITTLE INTERNATIONAL, INC.
2300 YONGE, SUITE 1600,
TORONTO, ON M4P 1E4**

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1899 BROCK ROAD

TABLE OF CONTENTS

| | |
|--|-----------|
| TABLE OF CONTENTS | 2 |
| EXECUTIVE SUMMARY | 3 |
| INTRODUCTION | 4 |
| GENERATION ESTIMATES: RESIDENTIAL | 5 |
| WASTE HANDLING SYSTEM: RESIDENTIAL | 6 |
| General Garbage & Compostable Waste..... | 8 |
| Recyclable Materials (Glass, Metal and Plastic) | 8 |
| Fibre Materials (Cardboard and Paper)..... | 8 |
| Bulk Items..... | 8 |
| REGION OF DURHAM WASTE COLLECTION REQUIREMENT | 9 |
| Waste Loading Area: | 9 |
| Access: | 9 |
| GENERATION ESTIMATES: COMMERCIAL | 10 |
| WASTE HANDLING SYSTEM: COMMERCIAL | 11 |
| General Garbage | 12 |
| Recyclable Materials..... | 12 |
| Fibre Materials | 12 |
| Organic Waste..... | 12 |
| Other Waste Materials | 13 |
| Landscape Waste | 13 |

1899 BROCK ROAD

EXECUTIVE SUMMARY

Cini•Little International Inc. has been retained by Calloway REIT (Pickering) Inc. to investigate the waste handling alternatives for the 1899 Brock Road project a new mixed-use development located on the northwest intersection of Brock Road and Pickering Parkway in Pickering, Ontario.

The development is a mixed-use comprising of three buildings consisting of 922 residential units and multiple retail units. **Tower A** will be 25 storeys high consisting of 301 units and Tower B will be 28 Storeys high consisting of 276 units and **Tower C** will be 32 Storey High consisting of 345 units. **Tower A, Tower B and Tower C** will each have a single Chute System connected to a Tri-sorter to segregate Garbage, Comingled Recyclables and Fibre. Garbage shall be compacted using an apartment compactor underneath the Tri-sorter. The chute systems include intake rooms on each residential floor and termination/receiving rooms (3) at Ground Floor level. The chute system for residents is utilized for general trash including compostable wastes, commingled recyclables (plastics, glass, metals) and Fibre (Paper, small cardboard). The chute receiving rooms to also serve as staging for empty and full dumpster bins and 360 L carts. Additionally, separate “bulk goods” waste staging rooms in each tower shall be provided that would be accessible by the residents.

Commercial tenants of Tower A & C will be provided separate commercial garbage rooms at Ground floor level of each tower for dumpster bins including general landfill, commingled recyclables, and organic waste carts. Universal waste (E-waste, light bulbs, batteries, etc.) and hazardous material holding to be staged in separate holding room(s)/area(s). Both picked-up at the Garbage Loading Bay. Staging area for bins is determined for the residences per **region of Durham Guidelines**.

Based on the calculations above, it is estimated that the residential component of the development will generate 352.48 cubic meters of waste per week, of which 102.22 cubic meters can be easily removed for recycling. 83.42 cubic meters of compacted waste shall be picked by Region of Durham.

Based on the calculations, it is estimated that the commercial component of the development will generate 23.0 cubic meters of waste per week, of which 13.6 cubic meters can be easily removed for recycling. 3.1 cubic meters of compacted general trash shall be picked by approved private Waste Hauler.



1899 BROCK ROAD

INTRODUCTION

The volumes and types of waste presented in this report are estimates based on our own experience and empirical data as it pertains to multi-purpose building.

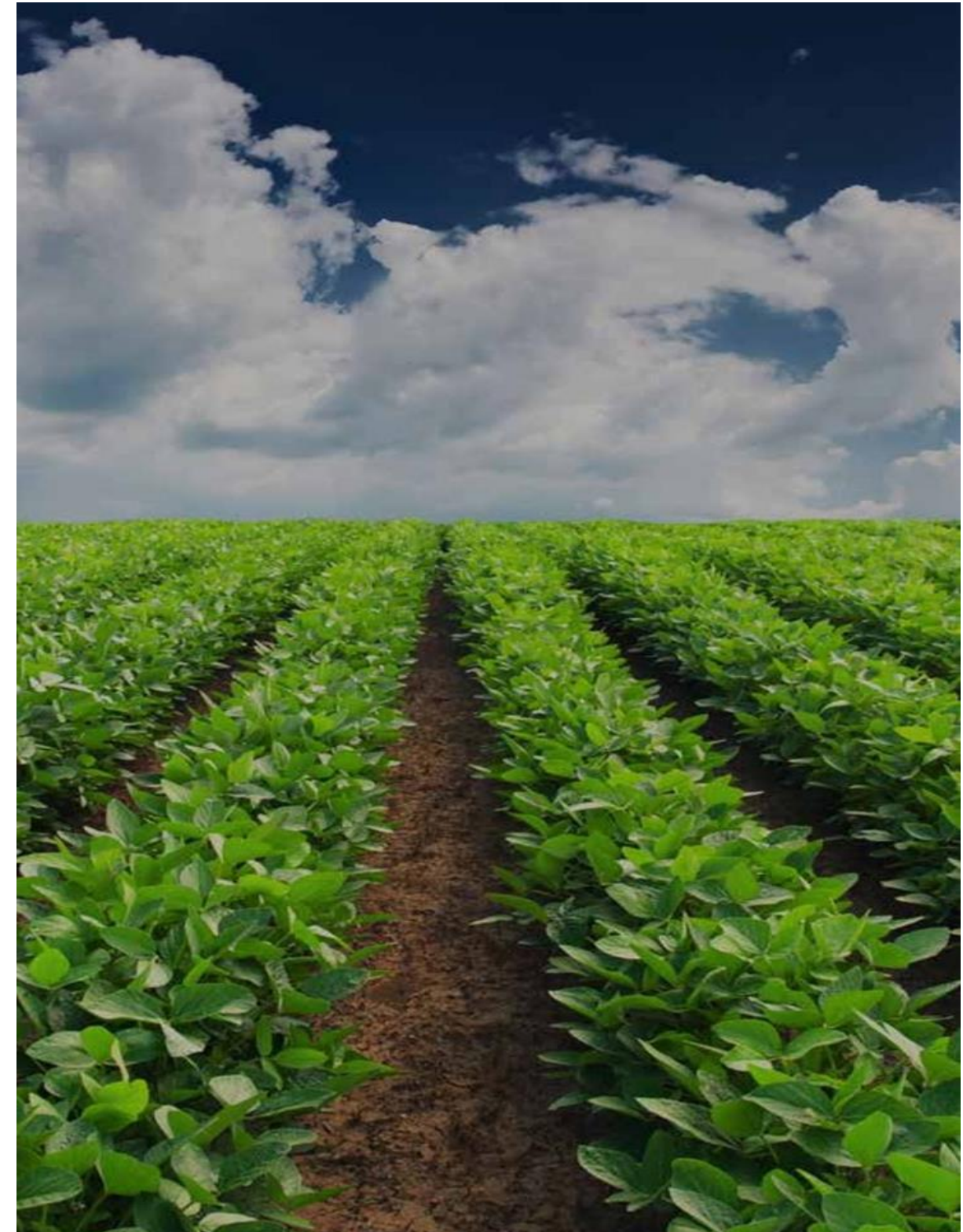
The goals of the preferred waste-handling programme are to follow waste handling regulations and to minimize the cost of handling the materials while addressing the problems of storing both recyclable and non-recyclable waste material on site for pick-up. This report will act as a general guideline with the understanding that a specific detailed program may be refined by the Property Management Company of this complex.

We welcome comment on the findings herein and will work closely with the Calloway REIT (Pickering) Inc., Turner Fleisher Architects Inc., retained professionals, and the Region of Durham to ensure that appropriate waste handling facilities are incorporated. Our goal is to develop a functional project that meets the needs of its owners, tenants, users, and surrounding community, while following practical waste handling regulations.

PROJECT COMPONENTS

The 1899 Brock Road Project mixed-use development will incorporate:

- Tower A: 25 Storeys high and 301 units
- Tower B: 28 Storeys high and 276 units
- Tower C: 32 Storeys high and 345 units
- Retail Space: 1,957 SM
- Residential Garbage and Recycling Rooms for Tower A, B & C are located on the Ground floor level in each building
 - ❖ Calloway REIT (Pickering) Inc. is required to submit a Materials Recovery and Waste Reduction Report to the Region of Durham for site permit application.
 - ❖ The site will be designed to satisfy the Region of Durham requirements for waste pick up of garbage and recycling materials for the residential building.



1899 BROCK ROAD

GENERATION ESTIMATES: RESIDENTIAL

Table 1 & Table 2 below illustrates the waste and recyclable material generation estimates for 577 units in Tower A & Tower B and 345 units in Tower C . The estimates are calculated in volumes shown as Cubic Meters per week. All calculations are shown uncompacted. These volumes, in conjunction with the architectural plans, are used to determine the equipment, spaces and frequency of collection required to service the building.

TABLE 1

| DESCRIPTION | TOTAL UNITS | A | B | C | D | E | F | G | H |
|--------------------------|-------------|---|---------------|----------------------|--------------------|-----------------|--------------------------------|-------------------------|------------------------|
| | | WASTE GENERATION ESTIMATE IN m ³ | ORGANIC WASTE | CORRUGATED CARDBOARD | GLASS CANS PLASTIC | NEWSPRINT PAPER | REMOVABLE RECYCLABLE MATERIALS | TOTAL WASTE TO LANDFILL | COMPACTED AT 3:1 RATIO |
| | | A | B | C | D | E | B+"C"+"D"+"E" | A-"F" | G/3 |
| Tower A | 301 | 115.07 | 10.36 | 5.75 | 8.06 | 9.21 | 33.37 | 81.70 | 27.23 |
| Tower B | 276 | 105.51 | 9.50 | 5.28 | 7.39 | 8.44 | 30.60 | 74.92 | 24.97 |
| Total Residential | 577 | 220.59 | 19.85 | 11.03 | 15.44 | 17.65 | 63.97 | 156.62 | 52.21 |

TABLE 2

| DESCRIPTION | TOTAL UNITS | A | B | C | D | E | F | G | H |
|--------------------------|-------------|---|---------------|----------------------|--------------------|-----------------|--------------------------------|-------------------------|------------------------|
| | | WASTE GENERATION ESTIMATE IN m ³ | ORGANIC WASTE | CORRUGATED CARDBOARD | GLASS CANS PLASTIC | NEWSPRINT PAPER | REMOVABLE RECYCLABLE MATERIALS | TOTAL WASTE TO LANDFILL | COMPACTED AT 3:1 RATIO |
| | | A | B | C | D | E | B+"C"+"D"+"E" | A-"F" | G/3 |
| Tower C | 345 | 131.89 | 11.87 | 6.59 | 9.23 | 10.55 | 38.25 | 93.64 | 31.21 |
| Total Residential | 345 | 131.89 | 11.87 | 6.59 | 9.23 | 10.55 | 38.25 | 93.64 | 31.21 |

Based on the calculations above, it is estimated that 922 residential units will generate 352.48 Cubic Meters of waste per week of which 102.22 Cubic Meters can be easily removed for recycling. Using a typical compaction ratio of 3:1, a total of 83.42 Cubic Meters of compacted waste will be collected weekly by bulk-lift vehicles and taken to the landfill site.

1899 BROCK ROAD

WASTE HANDLING SYSTEM: RESIDENTIAL

City guidelines considers the storage requirement for Apartment compactor and all the dumpster bins required to store General Trash along with the Compostable, and 360 Litre carts commingled Recyclables and Fibre to be generated from the residential component of the development. For every Dumpster Bin 5 SM of space shall be required to store each Front-End Dumpster Bin and 1 SM shall be required for each cart. According to Region of Durham guidelines for Multi residential complexes, Following Storage Equipment are required for various types of Waste Streams

Landfill & Organic Waste: One 3-CY Front-End Dumpster bins should be provided for each 50 units and One 3-CY Front-End Dumpster bin should be provided for every additional 50 units to store compacted Landfill and Compostable Waste.

Recyclables Waste: One 360-Litre Cart for every 7 units for Recyclables Waste

An additional **10 square meters separate room for bulky waste items accessible by residents** is also required for each tower.

Based on 301 units, **Tower A** would require **88 SM** for space for **Residential Garbage and Recycling Room**. In the proposed development, Residential Garbage and Recycling Room will be located at Ground Floor level of the Tower A. A separate room measuring **10 SM** and easily accessible by residents shall be provided for **Bulk Waste Items**. **41 SM** of space shall be provided as **Staging Area** at the Waste loading Bay to stage the bins and carts to be emptied by Bulk Lift vehicle belonging to Region of Durham.

To Store the above expected waste volumes from Tower A, **Seven 3 Cubic Yard (2.1 Cubic Meters) Dumpster Bins for Compacted Garbage and Compostable Waste, Forty-Three 360-Litre Carts for Comingled Recyclables and Fibre Waste**. Please refer to **Table 3**

TABLE 3

| TOWER A-GROUND FLOOR | | | | |
|--|-----------|--|-------------------------------------|--------------|
| REQUIRED WASTE ROOM SIZE ON GROUND FLOOR LEVEL - RESIDENTIAL | | | | |
| Number of Garbage Bins | 3 CY | | Room Size | |
| 6.02 | 7 | | Bins & Carts | 78 |
| Number of Recycling Carts | | | Compactor | 10 |
| 43.00 | 43 | | | 88 SM |
| | | | Plus 10 SM Bulk Space | 98 SM |
| | | | Bin Staging Area For Tower A | |
| | | | Carts | 41 |
| Total Bins & Carts | 50 | | Staging Area | 41 SM |

Based on 276 units, **Tower B** would require **80 SM** for space for **Residential Garbage and Recycling Room**. In the proposed development, Residential Garbage and Recycling Room will be located at Ground Floor level of the Tower B. A separate room measuring **10 SM** and easily accessible by residents shall be provided for **Bulk Waste Items**. **38 SM** of space shall be provided as **Staging Area** at the Waste loading Bay to stage the bins to be emptied by Bulk Lift vehicle belonging to Region of Durham.

To Store the above expected waste volumes from Tower B, **Six 3 Cubic Yard (2.1 Cubic Meters) Dumpster Bins for Compacted Garbage and Compostable Waste, Forty 360-Litre Carts for Comingled Recyclables and Fibre Waste**. Please refer to **Table 4**

1899 BROCK ROAD

TABLE 4

| TOWER B-GROUND FLOOR | | | | |
|--|------|------------------------------|----|----|
| REQUIRED WASTE ROOM SIZE ON GROUND FLOOR LEVEL - RESIDENTIAL | | | | |
| Number of Garbage Bins | 3 CY | Room Size | | |
| 5.52 | 6 | Bins & Carts | 70 | |
| Number of Recycling Carts | | Compactor | 10 | |
| 39.43 | 40 | | 80 | SM |
| | | Plus 10 SM Bulk Space | 90 | SM |
| | | Bin Staging Area For Tower B | | |
| | | Carts | 38 | |
| Total Bins & Carts | 46 | Staging Area | 38 | SM |

Based on 345 units, **Tower C** would require **95 SM** for space for **Residential Garbage and Recycling Room**. In the proposed development, Residential Garbage and Recycling Room will be located at Ground Floor level of the Tower C. A separate room measuring **10 SM** and easily accessible by residents shall be provided for **Bulk Waste Items**. **48 SM** of space shall be provided as **Staging Area** at the Waste loading Bay to stage the bins to be emptied by Bulk Lift vehicle belonging to Region of Durham.

To Store the above expected waste volumes from Tower C, **Seven 3 Cubic Yard (2.1 Cubic Meters) Dumpster Bins for Compacted Garbage and Compostable Waste, Fifty 360-Litre Carts for Comingled Recyclables and Fibre Waste** will be required. Please refer to **Table 5**

TABLE 5

| TOWER C-GROUND FLOOR | | | | |
|--|------|------------------------------|-----|----|
| REQUIRED WASTE ROOM SIZE ON GROUND FLOOR LEVEL - RESIDENTIAL | | | | |
| Number of Garbage Bins | 3 CY | Room Size | | |
| 6.90 | 7 | Bins & Carts | 85 | |
| Number of Recycling Carts | | Compactor | 10 | |
| 49.29 | 50 | | 95 | SM |
| | | Plus 10 SM Bulk Space | 105 | SM |
| | | Bin Staging Area For Tower C | | |
| | | Carts | 48 | |
| Total Bins & Carts | 57 | Staging Area | 48 | SM |

1899 BROCK ROAD

General Garbage & Compostable Waste

- Tower A, Tower B & Tower C will have a Single Chute System connected to a Tri-sorter to sort Garbage with Compostable Waste, Comingled Recyclables and Fibre Waste followed by a compactor to compact the garbage only.
- Residents will dispose their garbage through the communal chute rooms located on each floor which dispatches to a designated residential garbage and recycling room located on Ground floor level of each building.
- 3-Cubic Yard/ 2.3 Cubic Meters dumpster bins will be used to collect general trash.
- During pick-up days/time building management will maneuver full bins to the staging area and combined Waste loading space located in Northwest Quadrant of the Development on Ground floor level of the development for Tower A & B, and Bins from Tower C will be taken to the Waste Loading Space located in the Northeast Quadrant of the development to be collected and emptied by Bulk collection vehicle belonging to Region of Durham and return empty bins.
- One bin for must remain under the chute system at all times.

Recyclable Materials (Glass, Metal and Plastic)

- Residents will dispose their recyclables waste through the communal chute rooms located on each floor which dispatches to a designated residential garbage and recycling room located on Ground floor level of each building.
- 360-Litres/95 US Gallon carts will be used to collect Comingled Recyclables.
- During pick-up days/time building management will maneuver full carts to the staging area and combined Waste loading space located in Northwest Quadrant of the Development on Ground floor level of the development for Tower A & B, and carts from Tower C will be taken to the Waste Loading Space located in the Northeast Quadrant of the development to be collected and emptied by Bulk collection vehicle belonging to Region of Durham and return empty bins.
- One cart for must remain under the chute system at all times

Fibre Materials (Cardboard and Paper)

- Residents will dispose their fibre waste through the communal chute rooms located on each floor which dispatches to a designated residential garbage and recycling room located on Ground floor level of each building.
- 360-Litres/95 US Gallon carts will be used to collect Fibre Waste.
- During pick-up days/time building management will maneuver full carts to the staging area and combined Waste loading space located in Northwest Quadrant of the Development on Ground floor level of the development for Tower A & B, and carts from Tower C will be taken to the Waste Loading Space located in the Northeast Quadrant of the development to be collected and emptied by Bulk collection vehicle belonging to Region of Durham and return empty bins.
- One cart for must remain under the chute system at all times

Bulk Items

- Residents of the development will bring down the larger pieces of furniture like Mattresses, couches etc. directly to the individual Bulk Waste Room allocated for each building.
- Larger pieces of Cardboard will also be stored in the Bulk Waste Room.
- On the collection day, property management will take the bulk waste items to the loading bay for collection after making proper arrangements with Region of Durham.

1899 BROCK ROAD

REGION OF DURHAM WASTE COLLECTION REQUIREMENT

Waste Loading Area:

- Loading Area shall be constructed of 8” (0.2m) thick reinforced concrete.
- The design of the staging area should not require the jockeying of containers by the driver. If jockeying of containers is necessary, a custodial staff person must be available to maneuver the containers for the driver. The city does not allow the driver to leave the collection vehicle.
- If the loading area is enclosed, it shall be adequately ventilated. Fresh air intakes shall not be located in or near any loading area.

Access:

- The access route and loading area must be designed in such a way as to allow a collection vehicle to enter the site, collect the waste and exit without the need to back up onto a public street. A turnaround area allowing for a three-point turn of not more than one truck length or a drive through access route are acceptable options for accommodating this requirement. The approximate dimensions of the collection vehicle that must be accommodated are presented in the table below.
- Access driveways must be a minimum of 6 meters wide at the point of ingress/egress to the site and a minimum of 4.4 meters wide throughout the site with an unencumbered vertical clearance of 4.4 meters. Consideration should be made regarding width requirements for right or left hand turns that may be required on private property.
- Turning radii of 9.4 meters inside and 14 meters outside should be available throughout the access route. The slope of the access route shall not exceed 8% and provide adequate vertical clearance throughout the access route.
- If the collection vehicle is required to drive onto or over a supported structure (such as an underground parking garage) the city must be provided with a letter certified by a Professional Engineer that the structure can safely support a fully loaded collection vehicle (35,000 kilograms) and conforms to the following:
 - Design Code - Ontario Building Code
 - Design Load - City bulk lift vehicle in addition Building Code requirements
 - Impact Factor - 5% for maximum vehicular speeds to 15 km/h and 30% for higher speeds

All residential garbage bins should be marked “Residential Waste Only” and should only be used to store residential waste only. Commercial Waste should be stored in separate waste bins and should be marked “Commercial Waste Only” or “Retail Waste Only”.

Region of Durham should be given precedence over Private Waste Hauler for residential waste pick up.

1899 Brock Road. Project shall satisfy all Region of Durham’s requirement for bulk lift waste collection. In case, if property management/ residents opt to avail services of a Private waste hauler for residential waste then no rebate or refund in municipal taxes shall be provided to the development.

1899 BROCK ROAD

GENERATION ESTIMATES: COMMERCIAL

The Waste Generation Estimate provided in **Table 6** calculates the estimated volumes of general trash, recyclables, hazardous and other specialty wastes that will be generated from retail areas.

The provided estimate is utilized as basis for waste area design planning and waste handling equipment specification. Actual waste diversion to landfill can increase/decrease based on the goals and effectiveness to carry out recycling programs by tenants and facility management. The selected waste hauler will be responsible for providing waste management services for the principal waste streams. Additional approved private haulers may be contracted for some of the specialty wastes. Further investigation and confirmation are required for each waste type and hauler. The waste generation estimate does not include estimate for any secondary separation and recovery of recyclable materials from general trash that is sent off site to a “Dirty” Material Recovery Facility (MRF) (facility that takes post-recyclable landfill waste to try and recovery further recyclables).

Total expected waste volume to be generated from 1899 Brock Road is estimated to be approximately 23.0 Cubic Meters per week. Of this volume it is estimated that approximately 9.4 Cubic Meters per week can be diverted from general landfill trash through recycling streams.

TABLE 6

| 1899 Brock Waste Generation Estimate- Commercial | | Total Waste Generation Estimate Cubic Meters (CM) per WEEK | (1) Organics / Compostable (CM/Wk) | (2) Corrugated Cardboard (CM/Wk) | (3) Commingled Recyclable (CM/Wk) | (4) Mixed Paper (CM/Wk) | (5) Universal & Recyclable Hazardous (CM/Wk) | (6) Non-Recyclable Hazardous (CM/Wk) | Total Diversion from Landfill | Total Diversion % | General Trash (CM/Wk) | Compacted 3:1 Ratio (CM/Wk) | |
|--|--------------|--|---|--|---|-------------------------------|--|---|-------------------------------------|----------------------|--------------------------|-----------------------------------|------------|
| Square Meter | | | | | | | | | | | | | |
| TOWER A | | | | | | | | | | | | | |
| Ground Floor | Mixed Retail | 629 | 7.40 | 1.48 | 1.48 | 1.11 | 0.15 | 0.07 | 0.07 | 4.4 | 59% | 3.0 | 1.0 |
| TOWER C | | | | | | | | | | | | | |
| Ground Floor | Mixed Retail | 1,328 | 15.61 | 3.12 | 3.12 | 2.34 | 0.31 | 0.16 | 0.16 | 9.2 | 59% | 6.4 | 2.1 |
| TOTAL WASTE VOLUMES | | 1,957 | 23.0 | 4.6 | 4.6 | 3.5 | 0.5 | 0.2 | 0.2 | 13.6 | | 9.4 | 3.1 |

The principal waste streams include the following:

- General Trash
- Organic Wastes
- Commingled Recyclables (single-stream plastics, glass, metals/cans, mixed clean paper, cardboard)

In addition, there are other specialty waste streams that will be staged for pick-up in carts, dumpster bins, secured cage/room, hazardous or flammable cabinets, etc. These include:

- E-Waste – print cartridges, computers, electronic cords, phones, etc.
- Donatable and Bulk Furniture/Equipment – clothing, household items, furniture, non-perishable food, etc.
- Recyclable Hazardous Waste - batteries (particularly lithium based which are increasingly mandated for separation from landfill), light bulbs, cooking oil, etc.
- Non-Recyclable Hazardous Waste – paints, aerosols cans, chemicals, hazardous oils, bio-medical / sharps (needles) waste, etc.

Summary of the Waste Generation Estimate volumes is shown on the **Table 7 & Table 8** below:

TABLE 7

| WASTE SUMMARY | Total Waste Generation Estimate (CM) per week | Total Waste Diversion Estimate (CM/Wk) | General Trash Uncompacted (CM/Wk) | General Trash Compacted 3:1 Ratio (CM/Wk) |
|----------------|--|---|---|--|
| TOWER A | 7.4 | 4.4 | 3.0 | 1.0 |
| TOWER C | 15.6 | 9.2 | 6.4 | 2.1 |
| Total | 23.0 | 13.6 | 9.4 | 3.1 |

1899 BROCK ROAD

TABLE 8

| RECYCLABLES BREAK-DOWN | (1) Organics (CM/Wk) | (2) Corrugated Cardboard & Paper (CM/Wk) | (3) Commingled Recyclable (CM/Wk) | (4) Mixed Paper (CM/Wk) | (5) E-Waste & Recyclable Hazardous (CM/Wk) | (6) Non-Recyclable Hazardous (CM/Wk) |
|------------------------|----------------------|--|-----------------------------------|-------------------------|--|--------------------------------------|
| TOWER A | 1.5 | 1.5 | 1.1 | 0.1 | 0.1 | 0.1 |
| TOWER C | 3.1 | 3.1 | 2.3 | 0.3 | 0.2 | 0.2 |
| Total | 4.6 | 4.6 | 3.5 | 0.5 | 0.2 | 0.2 |

- (1) Organic Wastes include items such as fruits, vegetables, eggs, paper egg containers, plants, coffee grounds, filters, tea bags, soiled paper products (napkins, towels), daily on-site yard maintenance, etc.
- (2) Corrugated Cardboard & Mixed Paper (non-confidential)
- (3) Co-mingled Recyclables include plastics, glass, cans/metals (single stream).
- (4) Donatable and Bulk Recycling materials include equipment, furniture, etc.
- (5) E-Waste & Recyclable Hazardous Materials include print cartridges, computers, phones, electronic cords, batteries, light bulbs, cooking oil, etc.
- (6) Non-Recyclable Hazardous Wastes include paints, aerosol cans, chemicals, hazardous oils, etc.

WASTE HANDLING SYSTEM: COMMERCIAL

For Retail tenants a **separate Garbage and Recycling Room shall be provided on Ground Floor level of the Tower A & Tower C** for the storing the waste to be generated from commercial areas. As per our calculation for twice per week pick-up **Tower A** will require **39 SM** and **Tower C** will require **59 SM** (see **Table 9**).

TABLE 9

| 1899 BROCK-COMMERCIAL TOWER A | | | | | 1899 BROCK-COMMERCIAL TOWER C | | | | |
|---|--|---|-------------|--|---|--|---|-------------|--|
| WASTE EQUIPMENT & SPACE PROGRAM | | | | | WASTE EQUIPMENT & SPACE PROGRAM | | | | |
| TRASH AREAS | | | | | TRASH AREAS | | | | |
| Waste Type | Location | Equipment | * Area (SM) | Notes | Waste Type | Location | Equipment | * Area (SM) | Notes |
| General / Landfill Trash | Garbage Room | 1 x 3-CY Dumpster Bins | 5 | Pick-up two times per week. | General / Landfill Trash | Garbage Room | 2 x 3-CY Dumpster Bins | 10 | Pick-up two times per week. |
| Organic/Compostable Waste | Tempered Room | 1 x 2-CY Dumpster Bins | 5 | Pick-up one time per week. | Organic/Compostable Waste | Tempered Room | 2 x 2-CY Dumpster Bins | 10 | Pick-up one time per week. |
| Co-Mingled Recyclables (NON-RESIDENTS) (plastics, cans/metals, glass) | Garbage Room | 1 x 3-CY Dumpster Bins | 5 | Pick-up one time per week. | Co-Mingled Recyclables (NON-RESIDENTS) (plastics, cans/metals, glass) | Garbage Room | 2 x 3-CY Dumpster Bins | 10 | Pick-up one time per week. |
| Cardboard & Mixed Paper | Garbage Room | 1 x 3-CY Dumpster Bins | 5 | Pick-up one time per week. | Cardboard & Mixed Paper | Garbage Room | 2 x 3-CY Dumpster Bins | 10 | Pick-up one time per week. |
| Universal / E-Waste / Recyclable Hazardous | Garbage Room | 1 x 95-gallon carts | 2 | Pick-up one time per week. | Universal / E-Waste / Recyclable Hazardous | Garbage Room | 1 x 95-gallon carts | 2 | Pick-up one time per week. |
| Non-Recyclable Hazardous | Holding Room; Secure Cabinets | Hazardous Waste Cabinets (x2), Shelving | 4 | Option location within Facility Maintenance Dept. | Non-Recyclable Hazardous | Holding Room; Secure Cabinets | Hazardous Waste Cabinets (x2), Shelving | 4 | Option location within Facility Maintenance Dept. |
| On-Site Cart / Can / Mat Wash | Wash Room | Hot/cold pressure washer w/ mixing valve; shelving. | 7 | | On-Site Cart / Can / Mat Wash | Wash Room | Hot/cold pressure washer w/ mixing valve; shelving. | 7 | |
| Hand Sink, Mop Sink Cabinet | Cart Wash | Handsink w/Eyewash, Mop Sink Cabinet | 2 | Part of Cart Wash area | Hand Sink, Mop Sink Cabinet | Cart Wash | Handsink w/Eyewash, Mop Sink Cabinet | 2 | Part of Cart Wash area |
| Miscellaneous Equipment | Soiled Dock | Dumpster Bin Tow, Ionizer, Fly Zapper | | | Miscellaneous Equipment | Soiled Dock | Dumpster Bin Tow, Ionizer, Fly Zapper | | |
| Used Cooking Oil | Tank within 40 feet of oil truck parking | 1~2 x Oil Tank, Transport Caddy | 4 | System includes transport caddy. | Used Cooking Oil | Tank within 40 feet of oil truck parking | 1~2 x Oil Tank, Transport Caddy | 4 | System includes transport caddy. |
| TOTAL | | | 39 | Space requirement may vary as per change in use of retail space. | TOTAL | | | 59 | Space requirement may vary as per change in use of retail space. |

1899 BROCK ROAD

General Garbage

- Commercial tenants of Tower A will bring general trash direct to commercial waste room/enclosure located on the Ground floor level of the Tower A and tenants of the Tower C will bring the General Trash to commercial waste room/enclosure located on the Ground floor level of the Tower C.
- 3-Cubic Yard/ 2.3 Cubic Meters dumpster bins will be used to collect general trash.
- During pick-up days/time building management will maneuver full bins to the staging area and Waste loading space located in northwest quadrant of the development on Ground floor level for Tower A and to Northwest Quadrant of the Development for Tower C to be collected and emptied by Bulk collection vehicle belonging to Private Waste Hauler and return empty bins.

Recyclable Materials

- Commercial tenants will bring commingled recyclables direct to commercial waste room/enclosure located on the Ground floor level of the Tower A and tenants of the Tower C will bring the General Trash to commercial waste room/enclosure located on the Ground floor level of the Tower C.
- Commingled recyclables are a single waste collection stream that include plastics, cans, glass.
- 3-Cubic Yard/ 2.3 Cubic Meters will be used to collect commingled recyclables.
- During pick-up days/time building management will maneuver full bins to the staging area and Waste loading space located in northwest quadrant of the development on Ground floor level for Tower A and to Northwest Quadrant of the Development for Tower C to be collected and emptied by Bulk collection vehicle belonging to Private Waste Hauler and return empty bins.

Fibre Materials

- Commercial tenants will bring Fibre Material direct to commercial waste room/enclosure located on the Ground floor level of the Tower A and tenants of the Tower C will bring the General Trash to commercial waste room/enclosure located on the Ground floor level of the Tower C.
- Fibre Materials are a single waste collection stream that include Cardboard and Paper.
- 3-Cubic Yard/ 2.3 Cubic Meters will be used to collect Fibre waste.
- During pick-up days/time building management will maneuver full bins to the staging area and Waste loading space located in northwest quadrant of the development on Ground floor level for Tower A and to Northwest Quadrant of the Development for Tower C to be collected and emptied by Bulk collection vehicle belonging to Private Waste Hauler and return empty bins.

Organic Waste

- Commercial tenants will bring organics waste direct to commercial waste room/enclosure located on the Ground floor level of the Tower A and tenants of the Tower C will bring the General Trash to commercial waste room/enclosure located on the Ground floor level of the Tower C.
- 2-Cubic Yard/ 1.6 Cubic Meters will be used to collect commingled recyclables.
- During pick-up days/time building management will maneuver full bins to the staging area and Waste loading space located in northwest quadrant of the development on Ground floor level for Tower A and to Northwest Quadrant of the Development for Tower C to be collected and emptied by Bulk collection vehicle belonging to Private Waste Hauler and return empty bins.

Region Of Durham should be given precedence over Private Waste Hauler for residential waste pick up.

1899 BROCK ROAD

Other Waste Materials

Universal and Recyclable Hazardous Waste:

- E-Waste includes items such as print cartridges, computers, electronic cords, phones, etc. Recyclable hazardous waste includes such items as batteries, light bulbs, etc.
- Both residential and commercial tenants will utilize the same holding collections area for disposal. Drop area with different carts/bins depending on level of separation of the various waste types should be provided for depositing of this waste.
- Universal waste shall be stored in commercial waste rooms for all the commercial areas

Non-Recyclable Hazardous Waste:

- Non-recyclable hazardous waste includes materials such as paints, aerosol cans, chemicals, hazardous oils, medical waste, sharps (needles), etc.
- Non-flammable cabinets are required for holding the majority of the other hazardous waste types
- Both residential and commercial tenants will utilize the same holding collections area for disposal. Drop area with different carts/bins depending on level of separation of the various waste types should be provided for depositing of this waste.
- Hazardous waste shall be stored in commercial waste rooms for all the commercial areas

Landscape Waste

There is no landscape waste associated with this development project as it is expected the Landscape Contractor will be responsible for removing their own materials from the site.



We welcome comment on the information contained above and will work closely with Calloway REIT (Pickering) Inc., Turner Fleisher Architects Inc., retained professionals, and the Region of Durham to ensure that appropriate waste handling facilities are incorporated.

If you have any questions, please do not hesitate to contact the writer.

Sincerely,

CINI•LITTLE INTERNATIONAL, INC.

Handwritten signature of Kavish Kapoor in blue ink.

Kavish Kapoor
Associate Project Manager