

Blue Built Home Program Terms and Conditions



The City of Guelph expanded our community's unique Blue Built Home program on May 1, 2018 so that new and existing single-family homes and units in existing multi-residential buildings could participate.

The City is now pleased to extend the Blue Built Home program to units in new multi-residential buildings as well. Effective January 31, 2020, all single-family homes and units in multi-residential buildings ("residential properties") are eligible for Blue Built Home certification. Rebates of up to \$2465 are available for each single-family home and up to \$415 for each unit in a multi-residential building.

Having a Blue Built Home means long-term financial and water savings to owners of residential properties, supporting our local community by protecting our resources and environment.

To obtain Blue Built Home certification and/or Blue Built Home rebates, Applicants must meet all applicable requirements, and must agree to these Terms and Conditions.

Certification Requirements

For a single-family home or a unit in a multi-residential building to receive the Blue Built Home certification label, the Applicant must submit a completed Certification and Rebate Claim form, the residential property must meet all applicable criteria, and the City must verify this compliance.

To obtain Blue Built Home certification, the owner of a single-family home or a unit in a multi-residential building must complete at least one of the following three types of improvements:

Improvement Type A: Install a greywater reuse system.

Improvement Type B: Install a rainwater harvesting system.

Improvement Type C: Complete a minimum of three qualifying water saving options. At least two options must come from the "Primary Water Saving Options" category.

Blue Built Home certification requirements are summarized in Table 1 (Certification Requirements and Rebates) below and outlined in detail in Appendix A (Detailed Certification Requirements). The program design allows flexibility to accommodate a diversity of residential properties and the preferences of their owners. Not all types of improvements, options, fixtures or appliances may be suitable for all residential properties. For example, building efficient plumbing systems may not be feasible in retrofitted single-family homes,

and Blue Built Home Healthy Landscape Visits may not apply to units in multi-residential buildings.

Table 1 Certification Requirements and Rebates

Improvement Types	Certification Requirements	Rebates (each)
Type A	Install a Greywater Reuse System*	\$1,000
Type B	Install a Rainwater Harvesting System*	\$2,000
Type C	Complete a minimum of three qualifying water saving options. (At least two options must come from the "Primary Water Saving Options" category.)	
	Primary Water Saving Options:	
	WaterSense® Toilets (all) (≤ 4.0 litres)	\$50
	ENERGY STAR® clothes washing machine (≤ 19 litres per person per day or 5500 gallons per year**)	\$50
	ENERGY STAR® dish washer	NA
	Efficient hot water distribution system (Reduce the amount of water stored between the hot water source and the furthest fixture through an efficient plumbing system design or the installation of an on-demand hot water recirculation system)	\$100 for an on-demand recirculation system
	WaterSense® Showerheads (all) (≤ 6.6 litres per minute)	\$10
	Secondary Water Saving Options:	
	WaterSense® Bathroom faucets or faucet aerators (all) (≤ 5.7 litres per minute)	NA
	Permanent Sub-meter	\$100
	Removable Sub-meter	\$100
	Waterless Floor Drain Trap Primer	\$20
	Blue Built Home Healthy Landscape Visit	NA
	Other water saving product or technology as approved by the City	As approved by the City

* If both systems are installed in a residential property, only the Rainwater Harvesting System rebate will apply. These systems must supply water to all the toilets in the residential property at a minimum.

**Calculated based on average household occupancy of 3.0 persons.

The Blue Built Home program is performance-based and requires the use of fixtures that meet specific water use and performance standards. For some fixtures, this means using specifically labelled products (e.g. WaterSense®, ENERGY STAR®). Where performance-based standards are specified, the builder or owner may, unless otherwise required, use any

appropriate design or product that meets applicable codes and standards in order to meet the City's requirements (e.g. waterless floor drain trap).

Verification of compliance with the program's water efficiency standards might involve a building inspection by City staff or a City preferred contractor, an eMERGE Home Tune-up, a multi-residential building water audit, or submission of receipts or product specification sheets. The verification that an Applicant must provide will depend on the water efficient fixtures or systems installed, the type of residential property to be certified, and the associated participation eligibility process. Blue Built Home is a pass/fail program in which criteria must be met for the residential property to pass assessment and receive the label and any associated rebates.

Once compliance with the Blue Built Home program is verified, the City will grant certification to the residential property and process any associated rebates.

Participant Eligibility – New Single-family Homes

To be eligible for the certification and associated rebates it is required that:

- The builder is constructing a new single-family home that will be located within the City, serviced via the City's municipal water supply, and individually metered.
- The builder, when ready to submit the building permit application, also completes and submits a Blue Built Home Sign-up Form for the single-family home to be constructed.
- The builder constructs the single-family home to meet the Blue Built Home program's requirements.
- The builder makes the single-family home available for inspection through the City's inspection program. The builder ensures that the plumber employed by the builder is available for the final plumbing inspection conducted by the City, and, during the inspection, provides the product specification sheets for all fixtures, appliances, or systems to verify their water efficiency.
- The builder provides the owner's name, address and contact information (e-mail address and/or phone number) as available.
- The Applicant is the owner of the single-family property and the holder of the active water account for it at the time of occupancy.
- The Applicant submits a Certification and Rebate Claim form within six months after the closing date of the purchase of the single-family home.
- The Applicant provides receipts, or other proof as required by the City, to demonstrate that the single-family home meets Blue Built Home requirements and eligibility for associated rebates.
- The Applicant makes the single-family home available for inspection at the request of the City.
- The Applicant agrees to all provisions of these Terms and Conditions.

Participant Eligibility – Retrofitted Single-family Homes

To be eligible for the certification and associated rebates it is required that:

- The single-family home is already constructed and occupied, located within the City, serviced via the City's municipal water supply, and individually metered.
- The Applicant is the owner of the single-family home and the holder of the active water account for it at the time of application.
- The Applicant participates in an eMERGE Home Tune-up (or an alternative Blue Built Home inspection conducted by the City or a City-preferred contractor). This visit educates the owner about water use in the single-family home, how to reduce water use, and what, if anything, the owner must do in order for the single-family home to become Blue Built Home certified.
- The Applicant updates the single-family home to meet the Blue Built Home program's requirements.
- The Applicant submits a Certification and Rebate Claim form.
- The Applicant provides receipts, or other proof as required by the City, to demonstrate that the single-family home meets Blue Built Home requirements and eligibility for associated rebates.
- The Applicant makes the single-family home available for inspection at the request of the City.
- The Applicant agrees to all provisions of these Terms and Conditions.

Participant Eligibility – Units in New Multi-residential Buildings

To be eligible for the certification and associated rebates it is required that:

- The builder is constructing a new multi-residential building that will be located within the City and serviced via the City's municipal water supply.
- The builder, when ready to submit the building permit application, also completes and submits a Blue Built Home Sign-up Form for units in the multi-residential building to be constructed.
- The builder constructs units in the multi-residential building to meet the Blue Built Home program's requirements.
- The builder makes the multi-residential building and its units available for inspection through the City's inspection program. The builder ensures that the plumber employed by the builder is available for the final plumbing inspection and, during the inspection, provides the product specification sheets for all fixtures, appliances, or systems to verify their water efficiency.
- The Applicant in respect of a unit is the owner of the unit and the holder of the active water account for the unit at the time of occupancy. The owner may authorize a representative, such as a superintendent, manager or condominium board, to apply on the owner's behalf.
- The Applicant submits a Certification and Rebate Claim form within six months after the building's water account is activated.
- The builder or Applicant submits receipts, a progress draw statement that shows payment of >90% of the plumbing work, a copy of the scope of work and the Purchase Order for final work complete, or other proof as required by the City. Such proof is required to demonstrate that the unit in the multi-residential building meets Blue Built Home requirements and eligibility for associated rebates.

- The Applicant makes the unit and the multi-residential building available for inspection at the request of the City.
- The builder and Applicant agree to all provisions of these Terms and Conditions.

Participant Eligibility – Units in Retrofitted Multi-residential Buildings

To be eligible for the certification and associated rebates it is required that:

- The unit in the existing multi-residential building is already constructed and occupied, located within the City, and serviced via the City's municipal water supply.
- The Applicant in respect of a unit is the owner of the unit and the holder of the active water account for the unit that is already constructed and occupied. The owner may authorize a representative, such as a superintendent, manager or condominium board, to apply on the owner's behalf.
- The Applicant for a unit in a multi-residential building that contains six (6) or more units and uses at least 130 cubic metres of water per unit per year participates in a free, multi-residential water audit of the building conducted by the City or a City preferred contractor. This audit provides detailed water demand information and recommendations on how to save money and water by improving the efficiency of the units in the building. The recommendations include details on the required updates to have the units Blue Built Home certified.
- The Applicant for a unit in a multi-residential building that contains fewer than six (6) units or uses less than 130 cubic metres of water per unit per year participates in a site visit by the City or a City preferred contractor.
- The Applicant updates the unit in the multi-residential building to meet the prescribed water efficiency standards of the Blue Built Home program.
- The Applicant submits a Certification and Rebate Claim form.
- The Applicant provides receipts, or other proof as required by the City, to demonstrate that the unit in the multi-residential building meets Blue Built Home requirements and eligibility for associated rebates.
- The Applicant makes the unit and the multi-residential building available for inspection at the request of the City.
- The Applicant agrees to all provisions of these Terms and Conditions.

Rebate Requirements

Blue Built Home rebates are listed in Table 1 (Certification Requirements and Rebates).

The City will only grant rebates for fixtures or appliances for which rebates are available and for which the Applicant provides proof of purchase. Fixtures, appliances or systems are only eligible for rebate if they were purchased no more than one year prior to the associated Blue Built Home Certification and Rebate Claim form submission.

A rebate will only be issued upon the processing of a submitted, fully completed, Blue Built Home Certification and Rebate Claim form, and after any required verifications have been conducted. Rebates will only be issued for residential properties located in the City that are serviced via the City's municipal water supply. Rebates will only be issued to the active water account holder for the residential property upon building occupancy.

The Applicant in respect of any existing residential property must submit the Blue Built Home Certification and Rebate Claim form no more than one year after the eMERGE Home Tune-up or Multi-residential Water Audit. The Applicant in respect of a newly constructed single-family home must submit the Certification and Rebate Claim form within six months after the date of closing the owner's purchase of the single-family home. The Applicant in respect of a newly constructed unit in a multi-residential building must submit the Certification and Rebate Claim form within six months after the unit's water account has been activated and occupancy has begun.

The verification that an Applicant must provide depends on the type of residential property to be certified and the associated eligibility process. Types of verification may include building inspection by the City or a City preferred contractor, eMERGE Home Tune-up, multi-residential water audit, and/or submission of receipts or product specification sheets. The City reserves the right, in its sole and absolute discretion, to request any form of verification that it determines to be required.

Rebates will be granted once the Blue Built Home Certification and Rebate Claim form and supporting documentation have undergone review and approval by the City. Rebate issuance may occur via cheque or direct application to an active water account, depending on the type of Applicant and at the discretion of the City. Typically, the owner of a single-family home would have the rebate applied directly to the owner's water account, with the exception of a greywater reuse or rainwater harvesting system. For a unit in a multi-residential building, a cheque would typically be issued and mailed to the Applicant.

Once a rebate has been provided through the Blue Built Home program, the Applicant is prohibited from applying for any other City rebates that apply for that same technology. The Applicant cannot receive two rebates for one fixture, system or appliance.

Rebates will be provided only so long as budgeted funding is available to the City. Applications will be processed on a first-come, first-served basis. The City reserves the right, in its sole discretion, to alter or cancel this program at any time.

Subsequent Monitoring and Evaluation

After granting Blue Built Home certification to a residential property and rebates to a City water account owner, the City or its agents may access utility billing account information for the purpose of monitoring water consumption. In addition, builders or owners of residential properties may be required to install additional water meter infrastructure in select single-family homes or units in multi-residential buildings for purposes of ongoing measurement of home water use. This infrastructure may be removed only with the City's approval.

The City reserves the right to conduct site visits at any time to verify that the water saving fixtures or appliances claimed on a Certification and Rebate Claim form have actually been installed at the residential property for which the Blue Built Home status was applied.

Brand Compliance Guidelines

Use of the Blue Built Home Logo must be in accordance with the Blue Built Home Brand Compliance Guidelines (Appendix B). The City will not tolerate misuse or misrepresentation of the Blue Built Home brand.

Agreement

In consideration of The Corporation of the City of Guelph (the "City") receiving and considering an application for certification and any rebate under the Blue Built Home program, the person submitting the application (the "Applicant") acknowledges and agrees:

- That the City is not responsible for the selection of home water fixtures, appliances, plumbing components or auxiliary water systems, or for the selection of vendors or installers to sell or install them.
- That the City is not responsible for any possible deficiencies or failures of water fixtures, appliances, plumbing components and auxiliary water systems.
- That the City does not guarantee or warrant home water fixtures, appliances, plumbing components or auxiliary water systems or their installation, performance, freedom from defects, quality of workmanship or suitability for any purpose, or the suitability of the premises for installation.
- That any rebate, if paid, will be paid to the Applicant via the Applicant's water bill or by cheque at the discretion of the City after the submission of necessary program documentation and after satisfactory verification has been performed by the City.
- To assume any and all costs of the installation, maintenance, and any alterations necessary for the proper operation of home water fixtures, appliances, plumbing components and auxiliary water systems.
- To provide the City or its agent with reasonable access to inspect the residential property where the Applicant proposes to install the home water fixtures, appliances, plumbing components or auxiliary water systems for participation in this program. Inspections are required to verify the appropriate installation of the water fixtures, appliances, plumbing components or auxiliary water systems and eligibility of them, if the City so requests.
- To indemnify, save and hold harmless the City, and its agents, officials, officers, councillors, staff and employees (collectively, the agents) against all liability, loss, costs, damages, and expenses, causes of action, actions, claims, demands, lawsuits and other proceedings, by whomever made, sustained, brought or prosecuted, including by third parties, involving bodily injury, death, personal injury, and property damage, in any way based upon, occasioned by or attributable to the Applicant's participation in this program.
- To use the Blue Built Home Logos only in accordance with the Blue Built Home Brand Compliance Guidelines.
- Not to make any false representations of a single-family home's or multi-residential building unit's Blue Built Home status.
- To refund the rebate to the City, on request, if the application contains any material misstatement or misrepresentation on the Applicant's behalf, or if the Applicant breaches any of these Terms and Conditions.

APPENDIX A – DETAILED CERTIFICATION REQUIREMENTS

Any person aspiring to achieve Blue Built Home certification for a new or existing single-family home or unit in a multi-residential building must complete at least one of the following three types of improvements and the applicable associated criteria.

Improvement Type A – Install a greywater reuse system

Installing a greywater reuse system that is used, at a minimum, to flush all toilets or urinals will qualify a residential property for Blue Built Home certification. To be eligible for the Blue Built Home certification and the associated rebate, the residential greywater reuse system must include the following:

- Greywater storage capacity volume of 150 litres or more.
- Removal of particulate matter and debris from the source of greywater collection in accordance with the Ontario Building Code.
- Disinfection of all greywater collected within the residential property (through Chlorination, Ultra Violet Light, or other standard means) in accordance with the treatment guidelines of the draft water quality standards of Health Canada’s Canadian Guidelines for Domestic Reclaimed Water for Use in Toilet or Urinal Flushing.
- As a minimum, use of the purified greywater inside the residential property for toilet/urinal flushing.

Note: Individually engineered residential greywater reuse systems are not eligible for rebate unless approved by an engineer and the City.

System Installation Requirements:

- Installation must be completed in accordance with applicable law including specifications of the Ontario Building Code, and CSA Standard B.128.1-06 with system approval subject to premise inspection and final plumbing approval by the City.
- As part of installation, all greywater reuse service lines must be clearly marked with appropriate labelling, in both English and French, indicating that the water service lines contain non-potable water.
- Installation must be completed by a qualified plumber.

Premise Isolation Requirements:

- Installation must include an appropriate premise isolation device in accordance with specifications of the Ontario Building Code and the City’s Backflow Prevention By-law.

Improvement Type B – Install a rainwater harvesting system

Installing a rainwater harvesting system that is used, as a minimum, to flush all toilets or urinals will qualify a residential property for Blue Built Home certification. The rainwater harvesting system may also be used for laundry and outdoor water uses. To be eligible for the rebate, the residential rainwater harvesting system must include the following:

- Rainwater storage capacity volume of 2,500 litres or more.
- Collection of rainwater from no less than 50% of the available residential property roof area.
- Removal of rough debris from source rainwater as well as particulate filtration removal from purified rainwater in accordance with the Ontario Building Code.
- Disinfection of all rainwater collected (through Chlorination, Ultra Violet Light, or other standard means) in accordance with the treatment guidelines of the draft water quality standards of Health Canada's Canadian Guidelines for Domestic Reclaimed Water for Use in Toilet or Urinal Flushing.
- Provision for the use of a municipal water top-up system in the event of insufficient rainfall collection.
- Provision for management of excess rainfall discharge in accordance with site stormwater management requirements and subject to final approval of the City.
- As a minimum, use of the purified rainwater inside the residential property for toilet/urinal flushing. Purified rainwater may also be used in the washing machine and outside the building if desired.
- Secondary hot water tank or dual check valve on hot water supply to hold rainwater if hot water is used in the washing machine.

System Installation Requirements:

- Installation must be completed in accordance with applicable law including specifications of the Ontario Building Code, and CSA Standard B.128.1-06 with system approval subject to premise inspection and final plumbing approval by the City.
- As part of installation, all rainwater service lines must be clearly marked with appropriate labelling, in both English and French, indicating that the water service lines contain non-potable water.
- Installation must be completed by a qualified professional rainwater harvesting contractor and/or plumber.

Premise Isolation Requirements:

- Installation must include at least one appropriate premise isolation device in accordance with specifications of the Ontario Building Code and the City's Backflow Prevention By-law.

Improvement Type C – Complete a minimum of three qualifying water saving options

Complete a minimum of three water saving options from the list provided. At least two options must come from the “Primary Water Saving Options” category.

Primary Water Saving Options:

WaterSense® Toilet (Effective flush volume of ≤4 litres or 1.1 US Gallons)

- Fit the home with only WaterSense® labelled tank-type toilets.
- Toilet capacity must be no larger than 4.0 litres, or 1.1 US Gallons, High Efficiency Toilet (HET).
- All toilets in the residential property must comply.
- Toilet must be marked with its water consumption as required by the ASME/CSA performance standards.
- Make, model number, and proof of purchase must be provided at the time of Certification and Rebate Claim form submission for new and existing residential properties.
- Product packaging and/or documentation (which will likely bear the WaterSense® label) must be provided at the time of final plumbing inspection for new single-family homes.

Listing of qualifying toilets can be found at www.epa.gov/watersense/product_search.html. In addition, qualifying toilets include, but are not limited to, the MaP Premium toilets listed on the [MaP website](#).

High Efficiency Clothes Washing Machine

- Install a high efficiency ENERGY STAR® qualified clothes washing machine that uses no more than 19 litres per person per day. This quantity is determined by converting WaterSense®’s annual water use in gallons for each model to litres used per day. This value is then divided by three, the average household occupancy rate. The limit of 19 litres per person per day is the same as 5500 gallons per year.
- Washing machine model number and proof of purchase must be provided at the time of Certification and Rebate Claim form submission for new and existing residential properties.
- If purchased and installed by the builder, product packaging and/or documentation (which will likely bear the ENERGY STAR® label) must be provided at time of final plumbing inspection.

To identify qualifying ENERGY STAR® approved high efficiency washing machines, visit the [ENERGY STAR® website](#) and use their Product Finder to identify a washing machine model that uses less than 5500 gallons per year.

High Efficiency Dish Washer

- Install a high efficiency ENERGY STAR® qualified dishwasher.
- Dishwasher must have been manufactured on or after January 1, 2011.
- Make, model number, and proof of purchase must be provided at the time of Certification and Rebate Claim form submission for new and existing residential properties.
- If purchased and installed by the builder, product packaging and/or documentation (which will likely bear the ENERGY STAR® label) must be provided at time of final plumbing inspection. Visit the [ENERGY STAR® website](#) and use their Product Finder to identify ENERGY STAR certified models.

Efficient Hot Water Delivery System

- Install a demand-initiated hot water recirculation system or design the plumbing system to reduce the amount of water stored between the hot water source and furthest fixture (e.g. core systems and whole house manifold systems). Timer and temperature based recirculation systems are not eligible.
- Plumbing system must be built so that the length of pipe between the hot water source and hot water fixture allow no more than 1.9 litres (0.5 US gallons), to be stored in any piping or manifold.
- Hot water source may be a water heater or an on-demand hot water recirculation loop.
- To account for the additional water that must be removed from the system before hot water can be delivered, no more than 2.3 litres (0.6 gallons) can be collected from the hot water fixture before hot water is delivered.
- Residential property must be fitted with a hot water recirculation pump if the demand-initiated hot water recirculation system is installed.
- Residential property must be fitted with appropriate plumbing circuits, mixing valve, check valve, expansion tank (2 to 4 gallon), connection lines and control mechanisms for each full bathroom.
- Piping must be properly insulated.

In existing residential properties, this requirement will be verified by inspecting the on-demand hot water recirculation system or measuring the temperature rise in water flowing from the furthest fixture from the hot water heater. The temperature must rise by 10°F within the collection of 2.3 litres of water from the hot water fixture, with the hot water completely turned on.

In new build residential properties, this requirement will be verified by inspecting the on-demand hot water recirculation system or measuring the pipe length during the plumbing inspections conducted by City plumbing inspectors.

See Appendix C (Pipe Length Volume Coefficients) for pipe length volume coefficients and an example of how to determine the maximum length of piping to qualify for this option. Maximum allowable lengths for ½ and ¾ inch Copper M and PEX CTS SDR 9 are provided.

WaterSense® Showerheads (≤ 6.6 litre or 1.75 US Gallon per minute)

- Install WaterSense® labeled showerheads with a maximum flow rate of 6.6 Litres or 1.75 US gallons per minute.
- All showerheads in the residential property must comply.
- Make, model number, and proof of purchase must be provided at the time of Certification and Rebate Claim form submission for existing residential properties.
- Product packaging and/or documentation (which will likely bear the WaterSense® label) must be provided at time of final plumbing inspection for new residential properties.

Secondary Water Saving Options:

WaterSense® Bathroom Faucets and Faucet Aerators

- Install WaterSense® labelled bathroom faucets or faucet aerators with a maximum flow rate of 5.7 litres per minute or 1.5 US gallons per minute.
- All bathroom faucets in the residential property must comply.
- Make, model number, and proof of purchase must be provided at the time of Certification and Rebate Claim form submission for existing residential properties.
- Product packaging and/or documentation (which will likely bear the WaterSense® label) must be provided at time of final plumbing inspection for new residential properties.

Permanent Sub-meter

- Have a licensed plumber install a permanent sub-meter.
- Sub-meters must meet or exceed American Water Works Association and NSF International standards (NSF/ANSI 61).
- Permanent sub-meters can be installed in a single-family home or each unit of a multi-residential building.
- Make, model number, and proof of purchase must be provided for existing residential properties at the time of Certification and Rebate Claim form submission for new and existing residential properties.
- Product packaging and/or documentation must be provided at time of final plumbing inspection for new residential properties.

Removable Sub-meter

- This Blue Built Home option is only available for existing single-family homes.
- Install an add-on sub-meter with smart technology.
- Sub-meter must meet or exceed American Water Works Association and NSF International standards (NSF/ANSI 61).
- Only one rebate is available per municipal meter per existing single-family home.
- Make, model number, and proof of purchase must be provided at the time of Certification and Rebate Claim form submission for the existing single-family home.

- If installed prior to the final plumbing inspection, product packaging or documentation must be provided during the final plumbing inspection for the existing single-family home.

Waterless Floor Drain Trap Primer

A waterless floor drain trap primer can be installed and count towards Blue Built Home certification if it replaces the use of potable water to prime a floor drain. A basement floor drain already primed using a non-potable water source (e.g. condensate from heating, ventilating and air conditioning system) does not qualify and is not eligible for rebate if replaced with a waterless floor drain trap primer.

- Waterless floor drain trap device must be approved by the Ontario Building Materials Evaluation Commission.
- Must replace a floor drain that uses a potable water source for priming.
- Make, model number, and proof of purchase must be provided at the time of Certification and Rebate Claim form submission for existing residential properties.
- Product packaging and/or documentation must be provided at time of final plumbing inspection for new residential properties.

A list of qualifying waterless floor drain trap devices can be found in Appendix D (Approved Waterless Floor Drain Trap Devices).

Healthy Landscape Visit for Blue Built Home

The City's free Healthy Landscape program helps Guelph residents reduce the demands of landscaping – saving time, water and money - without sacrificing beauty.

A Blue Built Home Healthy Landscape Visit specifically helps owners reduce outside water use and will count towards Blue Built Home certification. This Blue Built Home water saving option is currently only available to existing single-family homes.

An Applicant must note on the Certification and Rebate Claim form that the Applicant has participated in a Blue Built Home Healthy Landscape Visit.

Other water saving product or technology as approved by the City

The installation of innovative water efficient technologies is important to move the industry towards greater water efficiencies and support our efforts to be a water conscious community ("A City that makes a difference"). The City encourages the use of innovative water efficient technologies to conserve water.

If there is a new or unique water efficient product or technology not currently recognized within the Blue Built Home program that an Applicant would like to install, it may count towards Blue Built Home certification. The Applicant should contact the Blue Built Home program coordinator to discuss eligibility and possible rebates.

The City reserves the right, in its sole and absolute discretion, to approve or deny any proposed technology or fixture for this option. The City may request information about the

product including, but not limited to, specification sheets and subsequent sub-metering water demand analysis.

APPENDIX B -- BLUE BUILT HOME BRAND COMPLIANCE GUIDELINES

- No one may use any Blue Built Home Logo (the "Logo") except with the prior written permission of the City, and in accordance with such prior written permission.
- The Logo may be used only in circumstances consistent with the Blue Built Home program and its goals and objectives, and where use of the Logo would not be misleading to consumers.
- A City representative must review any marketing material that uses the Logo prior to publication in print or online.
- Anyone who uses the Logo in print or online must immediately afterwards provide the City with a copy of the print material or screen shot of how the Logo was used.
- The City intends to protect the integrity of the Blue Built Home program and its Logo by any means available in law.

The complete Blue Built Home Logo use guidelines can be found at bluebuilthome.ca.

APPENDIX C – PIPE LENGTH VOLUME COEFFICIENTS

To determine the maximum length of piping allowed to build an efficient hot-water distribution system, please consider the tables below which outline the litres of water contained per metre of hot water tubing. An example of calculating the allowable length of piping is provided.

Pipe Length-Volume Coefficients¹

Litres of Water Per Metre of Hot Water Tubing								
Nominal Diameter, inches	Copper M	Copper L	Copper K	CPVC CTS SDR 11	CPVC SCH 40	PEX-AI-PEX ASTM F 1281	PE-AL-PE	PEX CTS SDR 9
3/8	0.103	0.094	0.082	N/A	0.114	0.061	0.061	0.062
1/2	0.164	0.151	0.141	0.121	0.184	0.127	0.127	0.115
3/4	0.333	0.313	0.282	0.259	0.328	0.329	0.329	0.228
1	0.564	0.533	0.502	0.430	0.537	0.540	0.540	0.380
1-1/4	0.845	0.812	0.786	0.642	0.938	0.824	0.824	0.564
1-1/2	1.183	1.149	1.112	0.895	1.282	1.348	1.348	0.786
2	2.047	1.999	1.946	1.533	2.125	2.086	2.086	1.346

Example calculations using Copper M piping

Pipe Size, inches	Length, m	Coefficient, L/m	Length x Coefficient, L
3/4	4.5	0.333	1.5
1/2	1.75	0.164	0.29
3/8	0.5	0.103	0.05
Total Volume			1.84*

* Maximum allowable volume to qualify for Blue Built Home = 1.89 L, so the above example qualifies.

¹ Converted from Table 1: Internal Volume of Various Water Distribution Piping, US EPA WaterSense New Home Specification Guide for Efficient Hot Water Delivery.

Based on this data, the maximum length of piping for consistent use of ½ inch and ¾ inch Copper M or PEX CTS SDR 9 piping is provided below.

Copper M piping

For ¾ inch – maximum length is 5.6 meters, or 18.37 feet (Total volume is 1.86 litres).

For ½ inch – maximum length is 11.52 meters, or 37.8 feet (Total volume is 1.89 litres).

For PEX CTS SDR 9

For ¾ inch – maximum length is 8.29 meters, or 27.2 feet (Total volume is 1.89 litres).

For ½ inch – maximum length is 16.43 meters, or 53.9 feet (Total volume is 1.89 litres).

APPENDIX D – APPROVED WATERLESS FLOOR DRAIN TRAP DEVICES

Make	Model Name	Model No.	Technology
SureSeal	Inline 2"	SS2009	Inline Floor Drain Trap Sealer – Waterless Floor Drain
SureSeal	Inline 3"	SS3000	Inline Floor Drain Trap Sealer – Waterless Floor Drain
SureSeal	Inline 3-5"	SS3509	Inline Floor Drain Trap Sealer – Waterless Floor Drain
SureSeal	Inline 4"	SS4009	Inline Floor Drain Trap Sealer – Waterless Floor Drain
Pro Set Systems	Trap Guard	--	Waterless Floor Drain

Please note:

- Waterless Floor Drain Trap Devices must receive the authorization of the Ontario Building Materials Evaluation Commission to be eligible for Blue Built Home certification and Blue Built Home rebate.
- This list of approved floor drain models is subject to change.
- The City does not endorse specific brands, products, or dealers; nor does it guarantee materials, workmanship, performance, or durability of qualifying items.