

# Green Cleaning Standard Operating Procedure



#### **Document Information**

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Appendices Appendix A: Green Cleaning Product and Equipment Guidelines Appendix B: SOP Checklists Keywords Green Cleaning; Custodial; EcoLogo; Green Seal; Chemicals; Cleaning Equipment; Hand Washing

Asset Classes	Office, Industrial, Retail, Residential
Geographic Scope	Canada
Responsibility	Property Teams



#### 1. Purpose

To provide guidance on green cleaning best practices. This document should be shared with third party cleaning vendors, and tenants where QuadReal does not have operational control.

#### 2. Background

Many cleaning products contain harmful chemicals that have a negative effect on full-time employees, tenants, residents and maintenance staff.

	Adverse Health Risks	Exposure to these chemicals, either through inhalation or skin absorption, can increase adverse health risks such as reproductive problems and eye, skin, and respiratory irritation
iii	Negative Environmental Impacts	Includes air and water pollution, bioaccumulation of toxic substances in plants and animals, endocrine disruption in wildlife, and ozone depletion

Therefore, QuadReal aims to provide high-performance green cleaning in its properties by using practices that emit fewer harmful compounds, improve air quality, and promote well-being of our building occupants.

#### 3. Standard

A green cleaning program ensures that the negative impact of using chemicals on people's health and the environment is minimized.

There are two broad areas of opportunity for improving green cleaning practices:

- 1. Purchasing green cleaning materials and equipment; and
- 2. **Implementing** strategies and initiatives that promote green cleaning awareness, training, and practices.

#### 4. Asset Class Applicability

This SOP is applicable to all QuadReal managed properties. Applicability is determined by asset class as per the table below. If a property does not have operational control, this document should be shared with tenants as a resource for implementing these best practices in their spaces.

**Note**: Where a property is undergoing a building certification, additional procedures and tasks may be required. These will be determined on a case-by-case basis. Properties can reach out to the <u>Sustainability Team</u> for support.



Office   Multi-Tenan		Commercial Office   Multi-Tenant   Mixed-Use	Multi- Residential	<b>Retail</b> Enclosed	<b>Retail</b> Open-Air	Industrial	
	ASSET CLASS APPLICABILITY	FULL	FULL	FULL	PARTIAL	PARTIAL	
SC	OP PROCEDURE ITEMS						
1.	<b>Purchase:</b> Green cleaning materials and equipment		Mandatory			Exempt [Unless under operational control]	
2.	<b>Ensure:</b> Compliance of third-party providers with green cleaning standards		Mandatory		Exempt [Un operationa		
3.	Implement: Strategies to promote and improve hand hygiene	Mandatory		Exempt [Unless under operational control]			
4.	<b>Establish:</b> Process for addressing occupant feedback and driving continuous improvement	Mandatory		Exempt [Un operationa			

#### 5. Procedure

#### 5.1 Purchase green cleaning materials and equipment

All contracts with cleaning vendors <u>must</u> include requirements for use of green cleaning products and equipment. For properties where the existing property cleaning contract does not provide guidance on procurement of specific green cleaning products and equipment, see list of *Green Cleaning Product and Equipment Guidelines* found in *Appendix A*. When existing cleaning contracts come up for renewal, Appendix A should be included in new contracts.

Any cleaning products or equipment purchased directly by the Property team must also follow the requirements listed in Appendix A.

#### QuadReal Sustainability green cleaning criteria <u>must</u> be met for:

- Cleaning products used in the building
- Floor care products and disinfectants
- Disposable janitorial paper products and trash bags
- Hand soaps and hand sanitizers
- Cleaning equipment



#### 5.2 Ensure compliance of third-party providers with green cleaning standards

Along with requirements for green cleaning products and equipment, contracts with cleaning vendors <u>must</u> address how the following green cleaning standards will be met:

- Effective cleaning of hard floor and carpet maintenance systems and how they will be consistently utilized, managed, and audited.
- Safe storage and handling procedures for cleaning chemicals used in the building.
- Mitigation plans for spills, leaks and chemical management.
- Conserving energy, water and chemicals used for cleaning.
- Protection of vulnerable building occupants.
- Staffing and training of maintenance personnel appropriate to the needs or requirements of the building (Property Managers are responsible for regular meetings with cleaning provider and staff).

**Note**: A green cleaning program is designed with vulnerable site populations (employees, occupants and visitors with asthma, other respiratory conditions, or sensitive or damaged skin) in mind by reviewing the products, equipment and processes intended to be used at the buildings. These methods may include but are not limited to the adjustments to:

- Cleaning procedures
- Frequencies and timing
- Product choices or similar adaptations

#### 5.3 Implement strategies to promote and improve hand hygiene

The following strategies for promoting and improving hand hygiene should be implemented at all properties:

- Engage with cleaning staff: Ensure proper and frequent hand hygiene and sanitation is addressed with all cleaning staff. Staff must be reminded and trained to wash hands thoroughly before and after starting work, breaks, handling of any chemicals, handling of food, and/or any other activity that warrants handwashing/sanitizing. Proper hand hygiene helps reduce the risk of illness, the spread of germs, and injury from certain chemicals/products.
- Ensure availability of hand soaps: All washroom facilities that are under operational control, including those in public areas and back-of-house spaces, shall include appropriate hand soaps (see Appendix A for sustainable hand soap requirements).
- Promote awareness:
  - Per regulations, hand-hygiene notices will be placed in all employee washrooms.
  - Where applicable, a hand sanitation station or a clear sign pointing to the nearest hand sanitation or handwashing station, is located at the entryway to areas intended for food consumption as per the WELL Standard.
  - Properties are encouraged to install permanent educational signs promoting and outlining the steps for handwashing in all washrooms under operational control as per the Fitwel certification guidelines.



• **Provide disposable paper towels:** It is highly recommended that properties provide disposable paper towels in all washrooms under operational control rather than air dryers as per the WELL Standard.

For more information, refer to <u>WELL Standard</u> and <u>Fitwel certification</u> guidance on hand hygiene and handwashing supplies best practices.

## 5.4 Establish a process for addressing occupant feedback & driving continuous improvement

Property Management to:

	ACTION REQUIRED:
Address Occupant Feedback via: QR Connect	Review feedback and evaluate new technologies, procedures, and processes to continually improve. Conduct due diligence on any new technologies before full implementation.
Address Occupant Feedback via: Tenant surveys with each building occupant that address the cleanliness of the building	Where unfavorable responses are collected, the responsible party <u>must</u> work with the cleaning vendor and building occupant to address the issues.
Drive Continuous Operational Improvements	Cleaning vendors <u>will</u> work closely with supply vendors to analyze new equipment, chemicals and consumable product technologies for potential use in the building.



#### APPENDIX A:

#### **GREEN CLEANING PRODUCT AND EQUIPMENT GUIDELINES**

Purchase sustainable cleaning and hard floor and carpet care products that meet the **sustainability criteria** as follows. A minimum of 50% of products must meet the criteria, but properties should aim for 100%.

#### **CLEANING PRODUCTS**

The cleaning products used in the building must meet one or more of the following standards for the appropriate category:

Hard surface cleaners (general purpose cleaners, bathroom cleaners, window and glass cleaners, cleaners for cooking appliances, industrial cleaners, degreasers, and dish washing detergents)	UL EcoLogo 2759 Green Seal GS-37 EPA Safer Choice
Biologically based cleaning and degreasing compounds	UL EcoLogo 2792
Carpet cleaners, upholstery cleaners, and stain removers	UL EcoLogo 2795

#### FLOOR CARE PRODUCTS AND DISINFECTANTS

Floor care products, disinfectants, or other products not addressed by the above standards must meet one or more of the following standards for the appropriate category:

Hard floor care products (floor finishes & sealers, strippers & neutralizers, and restorers)	UL EcoLogo 2777 Green Seal GS-40
Non-biologically based digestion additives for cleaning (drain or grease trap additives) and odour control additives	UL EcoLogo 2798
Biologically based drain or grease trap additives	UL EcoLogo 2791
Biologically based odour control additives	UL EcoLogo 2796

#### **JANITORIAL PAPER PRODUCTS**

Disposable janitorial paper products and trash bags must meet the minimum the requirements of one or more of the following programs for the applicable product category:

Sanitary paper products (toilet tissue, facial tissue, paper towels, hand towels, paper napkins, and toilet seat covers)	UL EcoLogo 175 Green Seal GS-01 U.S. EPA Comprehensive Procurement Guidelines FSC certification Made from rapidly renewable resources Contain tree-free fibers
Plastic trash can liners	U.S. EPA Comprehensive Procurement Guidelines

#### HAND SOAPS AND HAND SANITIZERS

Hand soaps must be fragrance free and meet one or more of the following standards:

No antimicrobial agents (other than as a preservative) except where required by health codes and other regulations (i.e., food service and health care requirements)

Hand cleaners and hand soaps	UL EcoLogo 2784 Green Seal GS-41 EPA Safer Choice
Hand sanitizers	UL EcoLogo 2783





#### **CLEANING EQUIPMENT**

All powered cleaning equipment must have the following features:

- 1. Safeguards, such as rollers or rubber bumpers, to avoid damage to building surfaces.
- 2. **Ergonomic design** to minimize vibration, noise, and user fatigue, as reported in the user manual in accordance with ISO 5349-1 for arm vibrations, ISO 2631–1 for vibration to the whole body, and ISO 11201 for sound pressure at operator's ear.
- 3. As applicable, **environmentally preferable batteries** (e.g. gel, absorbent glass mat, lithium-ion) except in applications requiring deep discharge and heavy loads where performance or battery life is reduced by the use of sealed batteries.

In addition to the above, specific cleaning equipment must meet the following requirements:

Equipment	Requirements			
Vacuum cleaners	<ul> <li>Certified by the Carpet and Rug Institute <u>Seal of Approval/Green</u> <u>Label</u> Vacuum Program; and</li> <li>Operate with a maximum sound level of 70 dBA in accordance with ISO 11201.</li> </ul>			
Carpet extraction equipment (for restorative deep cleaning)	Certified by the Carpet and Rug Institute's <u>Seal of Approval</u> Deep Cleaning Extractors and Deep Cleaning Systems program.			
<b>Powered floor</b> <b>maintenance equipment</b> (including electric and battery powered floor buffers and burnishers)	<ul> <li>Equipped with such as vacuums, guards, or other devices for capturing fine particulates; and</li> <li>Operate with a maximum sound level of 70 dBA, in accordance with ISO 11201.</li> </ul>			
Propane-powered floor equipment	<ul> <li>High-efficiency, low-emissions engines with catalytic converters and mufflers that meet the California Air Resources Board or EPA standards for the specific engine size; and</li> <li>Operate with a sound level of 90 dBA or less, in accordance with ISO 11201.</li> </ul>			
Automated scrubbing machines	<ul> <li>Equipped with variable-speed feed pumps; and either: (1) on-board chemical metering to optimize the use of cleaning fluids or (2) dilution control systems for chemical refilling; or</li> <li>Scrubbing machines may use tap water only, with no added cleaning products.</li> </ul>			



## SOP CHECKLISTS

**APPENDIX B:** 

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### ASSET CLASS: COMMERCIAL OFFICE | ENCLOSED RETAIL | MULTI-RESIDENTIAL

#### SOP CHECKLIST: GREEN CLEANING

lte	m		Check
1.	Share t	his document with third party cleaning providers.	
2.	guidanc	f the cleaning contract provides cleaning materials procurement information, or ce on procurement of specific green cleaning products and equipment. Ensure it guidelines outlined in <i>Appendix A</i> for the following products at minimum: Cleaning products used in the building Floor care products and disinfectants Disposable janitorial paper products and trash bags	
	0	Hand soaps and hand sanitizers	
1	0	Cleaning equipment	
3.	Check i o	f the <b>contracts with vendors</b> address the following: Effective cleaning of hard floor and carpet maintenance systems and how they will be consistently utilized, managed, and audited.	
	0	Safe storage and handling procedures for cleaning chemicals used in the building.	
	0	Mitigation plans for spills, leaks and chemical management.	
	0	Conserving energy, water and chemicals used for cleaning.	
	0	Protection of vulnerable building occupants.	
	0	Staffing and training of maintenance personnel appropriate to the needs or requirements of the building	
4.	Confirm	Property Manager holds regular meetings with cleaning provider and staff.	
5.	Address	s proper and frequent hand hygiene and sanitation with all cleaning staff.	
6.	breaks,	and train cleaning staff to wash hands thoroughly before and after starting work, handling of any chemicals, handling of food, and/or any other activity that s hand washing/sanitizing.	
7.		appropriate hand soaps in all washroom facilities that are under operational including those in public areas and back-of-house spaces.	
8.	As per r	regulations, place hand-hygiene notices in all employee restrooms.	
9.		• <u>WELL Standard</u> and <u>Fitwel certification</u> guidance on hand hygiene and ushing supplies best practices, and implement as appropriate.	
10	Addres	s occupant feedback as it relates to improving green cleaning practices:	



ltem		Check
0	Review feedback from QR Connect on green cleaning and evaluate new technologies, procedures, and processes.	
0	Conduct due diligence on any new technologies before full implementation.	
0	Review tenant survey results - where unfavorable responses are collected, the responsible party will work with the cleaning vendor and building occupant to address the issues.	
	place <b>continuous operational improvements</b> to enhance green cleaning es at the property:	
0	Cleaning vendors are working with supply vendors to analyze new equipment, chemicals and consumable product technologies for potential use in the building.	





#### ASSET CLASS: INDUSTRIAL | OPEN-AIR RETAIL

#### SOP CHECKLIST: GREEN CLEANING

**Note**: In most cases, QuadReal does not have operational control over cleaning at industrial or open-air retail properties. However, the following is applicable if QuadReal is responsible for the cleaning contract in common spaces or common washrooms. If a property does not have operational control, this document should be shared with tenants as a resource for implementing these best practices in their spaces.

lte	ltem		Check
1.	Share this document with third party cleaning providers.		
2.	Check if the <b>cleaning contract</b> provides cleaning materials procurement information, or guidance on procurement of specific green cleaning products and equipment. Ensure it meets guidelines outlined in <i>Appendix A</i> for the following products at minimum: • Cleaning products used in the building		
	0	Floor care products and disinfectants	
	0	Disposable janitorial paper products and trash bags	
	0	Hand soaps and hand sanitizers	
	0	Cleaning equipment	
3.	Check i	f the <b>contracts with vendors</b> address the following: Effective cleaning of hard floor and carpet maintenance systems and how they will be consistently utilized, managed, and audited.	
	0	Safe storage and handling procedures for cleaning chemicals used in the building.	
	0	Mitigation plans for spills, leaks and chemical management.	
	0	Conserving energy, water and chemicals used for cleaning.	
	0	Protection of vulnerable building occupants.	
	0	Staffing and training of maintenance personnel appropriate to the needs or requirements of the building	
4.	. Address proper and frequent hand hygiene and sanitation with all cleaning staff.		
5.	. Remind and train cleaning staff to wash hands thoroughly before and after starting work, breaks, handling of any chemicals, handling of food, and/or any other activity that warrants hand washing/sanitizing.		
6.	Include appropriate hand soaps in all washroom facilities that are under operational control, including those in public areas and back-of-house spaces.		
7.	As per regulations, place hand-hygiene notices in all employee restrooms.		
8.	Address occupant feedback as it relates to improving green cleaning practices.		