

Failure to fully complete this form may result in rejection.  
Making a false statement may result in a fine or prosecution  
under the *Technical Standards and Safety Act*

Licence Number 76642426

Check applicable type of propane operations.

Cylinder  Motor Fill  Filling Plant  Card/Keylock

Submit along with this completed application a Facility Site Plan and a Map of the Surrounding Area.

### SECTION A: GENERAL INFORMATION

The Undersigned applies to TSSA for a review for an RSMP under Ontario's *Technical Standards and Safety Act*,  
Propane Storage and Handling Regulation.

A Company Name Ontario Corporation No., if applicable  
Costco Wholesale Canada Limited  
Operator Name (if different from above)  
Petar Martinovic (Agent/Tire Center Manager)  
Telephone No. Fax No. E-mail  
1-800-463-3783 N/A service@costco.ca

B Street No. Street Name / 911 Number / Address, if applicable  
415 West Hunt Road  
Town / City or Township / County Province Postal Code  
Ottawa Ontario K2E 1C5

Mailing address if different from above.

C Street No. Street Name / 911 Number / Address, if applicable  
Town / City or Township / County Province Postal Code

#### Information on Container Refill Centre or Filling Plant

Location of facility.

D Street No. Street Name / 911 Number / Address, if applicable Nearest Major Intersection  
150 Kingston Road East Kingston Road & Salem Road  
Town / City or Township / County Province Postal Code  
Ajax Ontario L1Z 1E5

Name of Licence Holder

Petar Martinovic (Agent) on behalf of Costco Wholesale Canada Limited

Name of a Senior Management person as defined in the regulation holding the Record of Training (ROT).

Robert Moyer

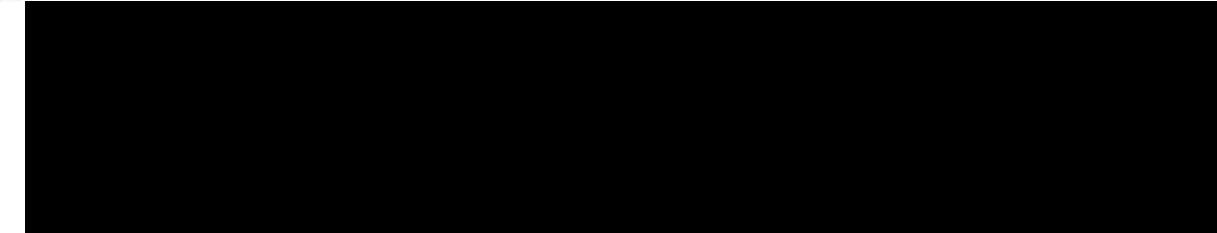
ROT type

100-08

Municipality (or municipalities if the facility or its hazard distance touches multiple borders)

Town of Ajax

Hours of operation.



*Kalmey Process Safety, Superior Propane 20/02/2012*



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**Level 1 Risk and Safety Management Plan (RSMP)**  
*Technical Standards and Safety Act*  
Propane Storage and Handling Regulation

**SECTION A: GENERAL INFORMATION (cont'd)**

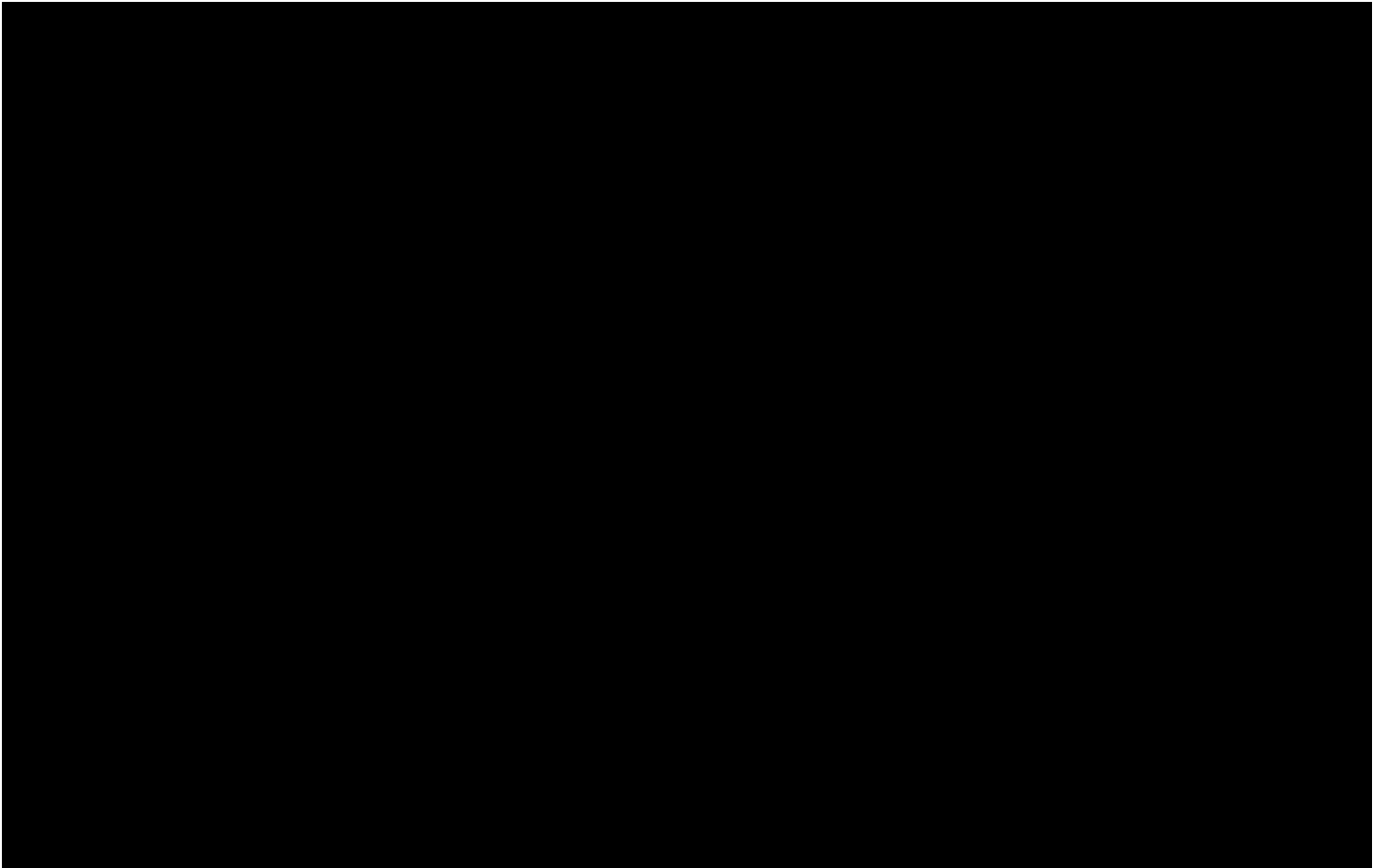
Indicate the year the facility was established. 2005  
Indicate the year of any significant modifications, as defined in s.1, O.Reg 211/01, since establishment. None

Identify the psig rating and serial number for each fixed propane storage tank on site.

	PSIG	Serial Number
Tank 1:	250 PSIG	5.563215
Tank 2:		
Tank 3:		

Enter capacity of propane in USWG, fixed, portable, and mobile, and provide detailed inventory that includes the number of tank/vessel for each type (fixed, portable, and mobile) and the capacity of each tank/vessel, on a separate document.

Fixed: 2000 USWG      Portable: 395.2 USWG      Mobile: 0



**Declaration: I am aware that it is an offence to give false information in this document and I hereby declare that the information I have given here is true and complete.**

Name of person completing this form (please print) Petar Martinovic (Agent)	Official Title Tire Center Manager
Signature 	Telephone No. (905) 619-6677
	Date (dd-mm-yyyy) 16-02-2012



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**Level 1 Risk and Safety Management Plan (RSMP)**  
**Technical Standards and Safety Act**  
**Propane Storage and Handling Regulation**

**SECTION A: GENERAL INFORMATION (cont'd)**  
Activity Information

<b>Name of Propane Supplier(s)</b> Superior Propane - Ontario Regional Operations Centre		For Office Use - Party No.	
Street No. 251	Street Name / 911 Number / Address, if applicable Woodlawn Road West, Unit 217		
Town / City or Township / Country Guelph		Province Ontario	Postal Code N1H 8J1
Telephone No. 1-877-873-7467	Fax No. (519) 836-7766	Contact Name Mike Mullins	
E-mail mullinsm@superiorpropane.com			

<b>Name of Propane Transporter.</b> If same as above, please check box. <input type="checkbox"/>		For Office Use - Party No.	
Superior Propane - Whitby			
Street No. 505	Street Name / 911 Number / Address, if applicable Victoria Street		
Town / City or Township / Country Whitby		Province Ontario	Postal Code L1N 9Z3
Telephone No. (705) 927-2234	Fax No. N/A	Contact Name Mark Wakeford	
E-mail wakefordm@superiorpropane.com			

<b>Off-site Cylinder and/or Mobile Storage</b> None	Capacity stored off-site, in USWG	For Office Use - Party No.
Street No.	Street Name / 911 Number / Address, if applicable	
Town / City or Township / Country		Province
Telephone No.		Postal Code
Fax No.	Contact Name	

Note: Customer storage is not considered off-site storage.

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	Date (dd-mm-yyyy) 16-02-2012



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**SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN**

The licence holder will complete Section B in consultation with the local Fire Services.

Description of the maximum volume, types and storage location of other hazardous materials on site, if any.

Maximum 30 litres of gasoline stored in a fireproof cabinet

Maximum 6 litres of paint stored in a fireproof cabinet

Description of fire and emergency equipment indicated on facility site map.

1. Fires Extinguisher Locations: a) at the propane shelter upright b) in the tire shop c) and at tire sales
2. Emergency stop push button - located on the exterior wall of the tire shop. This shuts down the pump and closes a solenoid valve upstream of hoses
3. Power supply breaker inside the building. This cuts all power to the propane system - shuts down pump; closes solenoid valve

List of fire protection controls (e.g., fire detection systems, fire notification systems, alarm systems, automatic shut off devices, fusible links, etc.) and describe their function, use and operation.

1. Emergency stop push button - located on the exterior wall of the tire shop. This shuts down the pump and closes a solenoid valve upstream of hoses.
2. Fusible link on ISC valve - isolation valve between the tank and the downstream propane dispensing equipment.
3. Power supply breaker inside the building. This cuts all power to the propane system - shuts down pump; closes solenoid valve.
4. ISC valve interlock bar (interlocked with cabinet door) - ISC valve closes when door is closed.

Maintenance and testing schedule for fire protection controls and devices.

Maintenance and testing is undertaken by Superior Propane according to Superior Propane's Maintenance Standard. Schedule for key equipment is:

1. Pumps (Pump every 3 months; Pump Motor: check belts monthly; grease motor every 6 months);
2. ISC Valves (test for closure every 6 months)
3. Fusible links - inspected every 6 months;
4. Storage tank Relief Valves - inspect every 2 years; replacement schedule as per provincial regulations.
5. Fire extinguishers maintained by Costco as per Ontario fire regulations. Maintenance records are kept in a log at the site and kept for 5 years.

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Name of person completing this form (please print) Petar Martinovic	Official Title Tire Center Manager
Signature 	Telephone No. (905) 619-6677
	Date (dd-mm-yyyy) 16-02-2012



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**SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)**

**1. Contacts for Emergency Response**

<b>1. Facility Contact Personnel - Key Contact</b>		<b>5. Facility 24-Hour Contact Person</b>	
Name Gary Shea		Name Gary Shea	
Official Title Assistant Warehouse Manager		Official Title Assistant Warehouse Manager	
Telephone No. (905) 619-6677	Fax No. (905) 619-6654	Cell No. (905) 767-4393	Fax No. (905) 619-6654
E-mail W159MGR3@COSTCO.COM		E-mail W159MGR3@COSTCO.COM	
Role and responsibilities in emergency coordinate site response		Role and responsibilities in emergency coordinate site response	
<b>2. Facility Contact Personnel - Alternate Contact</b>		<b>6. Name of Facility Manager</b>	
Name Petar Marlinovic		Name Randy Martel	
Official Title Tire Center Manager		Official Title Warehouse Manager	
Telephone No. (905) 619-6677	Fax No. (905) 619-6654	Telephone No. (905) 619-6677	Fax No. (905) 619-6654
E-mail W159TSM@COSTCO.COM		E-mail W159MGR@COSTCO.COM	
Role and responsibilities in emergency coordinate site response if key contact is unavailable		Role and responsibilities in emergency coordinate site response	
<b>3. Local Fire Services - Key Contact</b>		<b>7. Propane Supplier Key Contact Person</b>	
Name Deputy Fire Chief Michael Gamba		Name Superior Propane Hotline	
Official Title Director of Fire & Emergency Services	E-mail michael.gamba@townofajax.com	Official Title	E-mail
Telephone No. 905-686-6058	Fax No. 905-683-8119	Telephone No. 1-877-873-7467	Fax No.
Role and responsibilities in emergency coordinate/advise on Fire Service response and liaise with police		Role and responsibilities in emergency identify and dispatch Superior Propane and or LPERGC response personnel as required	
Fire Services Address Ajax Fire & Emergency Services, 65 Harwood Ave South, Ajax., ON L1S2H9		Propane Supplier Address 251 Woodlawn Road West, Unit 217, Guelph, ON	
<b>4. Local Fire Services - Alternate Contact</b>		<b>8. Municipal Contact</b>	
Name Deputy Fire Chief D. Lang	For Office Use - Party No.	Name Gary Muller	
Official Title Prevention and Communications	E-mail dave.lang@townofajax.com	Official Title Manager of Planning	
Telephone No. 905-686-6047	Fax No. 905-683-8119	Telephone No. 905-619-2529 ext 3201	Fax No. 905-686-0360
Role and responsibilities in emergency assist with the coordination of Fire Service response and liaise with police		E-mail gary.muller@townofajax.com	
Fire Services Address Ajax Fire & Emergency Services, 65 Harwood Ave South, Ajax., ON L1S2		Municipality Name and Address Town of Ajax, 65 Harwood Ave S, Ajax, ON L1S 2H9	

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Name of person completing this form (please print) Petar Marlinovic	Official Title Tire Center Manager
Signature 	Telephone No. (905) 619-6677
	Date (dd-mm-yyyy) 16-02-2012



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**SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)**


2. Additional Safety Measures

Describe any other measures in place at the facility that exceed the minimum Code and Standards requirements.

Emergency Shut Off push button to shut down pump and close solenoid valve upstream of dispensing hoses.

Fire Suppression System - (fire sprinkler system) inside Costco building.

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Name of person completing this form (please print) Petar Martinovic	Official Title Tire Center Manager	
Signature 	Telephone No. (905) 619-6677	Date (dd-mm-yyyy) 16-02-2012



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**SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)**

**3. Record of Emergency Training Provided - For most recent 12-month period.**

**Training on Emergency Response Plan and Procedures provided to facility key contacts.**

Training Date (dd-mm-yyyy) 2010	Print Name of Training Provider: Costco - Standard Costco Safety Training
	Print Name of Instructor: Jon Haddow
Training Date (dd-mm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:
Training Date (dd-mm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:

**Training on the facility's Emergency Management Procedures provided to staff.**

Training Date (dd-mm-yyyy) 2010	Print Name of Training Provider: Costco - Standard Costco Safety Training
	Print Name of Instructor: Jon Haddow
Training Date (dd-mm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:
Training Date (dd-mm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:

**On-site specific training provided to certificate holders / persons with Records of Training.**

Training Date (dd-mm-yyyy) TBA as required	Print Name of Training Provider: FSN Training or Other	PLEASE NOTE: a ROT is valid for 3 years
	Print Name of Instructor: to be arranged as required	
Training Date (dd-mm-yyyy)	Print Name of Training Provider:	
	Print Name of Instructor:	
Training Date (dd-mm-yyyy)	Print Name of Training Provider:	
	Print Name of Instructor:	

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**SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)**

**4. Emergency Training Plan for Coming Year**

**Training on Emergency Response Plan and Procedures provided to facility key contacts.**

Target Date (dd-mm-yyyy) 2011	Print Name of Training Provider: Costco - Standard Costco Safety Training	
	Print Name of Instructor: Jon Haddow	
Target Date (dd-mm-yyyy) 1Q 2012	Print Name of Training Provider: Superior Propane or Other	PLEASE NOTE - the course content is currently
	Print Name of Instructor: TBA	being developed by the industry and should be
Target Date (dd-mm-yyyy)	Print Name of Training Provider:	available for teaching in the fourth quarter of this year
	Print Name of Instructor:	

**Training on the facility's Emergency Management Procedures provided to staff.**

Target Date (dd-mm-yyyy) 1Q 2012	Print Name of Training Provider: Key site contact to train staff	
	Print Name of Instructor: TBA	
Target Date (dd-mm-yyyy)	Print Name of Training Provider:	
	Print Name of Instructor:	
Target Date (dd-mm-yyyy)	Print Name of Training Provider:	
	Print Name of Instructor:	

**On-site specific training provided to certificate holders / persons with Records of Training.**

Target Date (dd-mm-yyyy) 05-18-2011	Print Name of Training Provider: FSN Training	
	Print Name of Instructor: Reg Adams	
Target Date (dd-mm-yyyy) TBA as required	Print Name of Training Provider: FSN Training or Other	PLEASE NOTE - a ROT is valid for 3 years
	Print Name of Instructor: TBA as required	
Target Date (dd-mm-yyyy)	Print Name of Training Provider:	
	Print Name of Instructor:	

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Signature 	Telephone No. (905) 619-6677	Date (dd-mm-yyyy) 16-02-2012





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**SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)**

The licence holder will complete Section B in consultation with the local Fire Services.

**5. Emergency Response Communications Plan**

**Warnings and Actions**

Describe who gives warnings to whom, and how and when the warning will be given (including public notification as appropriate).  
The key contact/operator or alternate (both ROT staff) will contact emergency services by calling 911 and will provide warnings as outlined in the attached Propane Emergency Response Procedures (to be posted at site and be part of employee training). If it is safe to do so, this could involve advising neighbors to evacuate. The key contact will also contact Superior Propane via the emergency number identified in the ERP.

Describe what action is to be taken and by whom when a warning is issued (including details of a meeting place in a safe identified area and activating the evacuation plan, if necessary).  
The key contact/operator or alternate should first follow the actions in the ERP's provided herein. Staged evacuation, if the release of propane cannot be stopped by cutting electrical power may be required. The initial muster location will be at the RioCan Durham Centre sign at the signal light at Kingston Rd. Away from the site and away from a dispersing propane cloud. Subsequent evacuation instructions potentially up to the Hazard Distance to be provided by municipal emergency responders. Residences and businesses beyond the site boundary to be notified by municipal emergency responders.

**Communication with Emergency Response Authorities**

Describe when and how the licence holder will give early warning to emergency response authorities (including a process to ensure that a call is placed to 911).  
When the system is operational, site staff will be on duty and be in the propane tank area. The Key Contact or alternate will be implementing ER actions and notifications, including notifying emergency responders. Calling 911 will occur immediately after any attempts to shut down the system.  
When the system is not in operation, the ISC valve (main isolation valve) is closed, and the propane system is unattended, but is shutdown.  
Any accidents involving the propane tank during such times will require the intervention of random, nearby individuals.

Describe provisions for fire department entry when there are no operations or staffing at the propane site.  
The propane tank system is located in a wide open area that is easily accessible from Kingston Road East.  
The access routes for fire trucks are identified in the attached site plan.

Describe how the licence holder will ensure continual flow of updated information to authorities.  
The critical information required from the license holder is information on how to shut the system down and the fill level in the tank (if known).  
This will be provided either verbally if key contact, Gary Shea, is on-site or by cell phone during off hours.  
Fill level is relevant from a time-to-BLEVE perspective (a near empty tank will BLEVE sooner than a full tank if there is fire impingement on the tank).

How long will it take the facility liaison person to respond to the site.  
It would take key contact, Gary Shea, approximately 10 minutes to arrive on site after having received the emergency call.

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Name of person completing this form (please print) Petar Martimovic	Official Title Tire Center Manager
Signature 	Telephone No. (905) 619-6677
	Date (dd-mm-yyyy) 16-02-2012



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**SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)**

The licence holder will complete Section B in consultation with the local Fire Services.

**6. Building and Site Security and Procedures**

	Yes	No
1. Does the propane location have controlled access to limit unnecessary risk and entry (lock out procedures)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Is there adequate night lighting at the site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Are procedures in place that ensure access routes, aisles, storage area, filling areas and the grounds are kept clear from unwanted materials?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Are there procedures that capture and record the daily inspection of hoses and inspection requirements for filling systems and mechanical devices used in the transfer of propane?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Does the facility have procedures that include a process to isolate and purge any overfilled propane cylinders?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Are weighing systems validated for accuracy?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Are storage areas clearly marked with the vessels' capacity status (i.e., filled, empty, purged and other hazardous materials)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Are quality assurance procedures in place to ensure that all valves are closed after the propane cylinders are filled?(e.g., QCC valves)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Is the schedule of maintenance and testing activities retained on site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**7. Water Supply**

The propane licence holder should work with the local fire department to determine water supply capabilities that are available based on the propane facility's location.

	Yes	No
1. Is a pressurized water system available at the propane facility site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Can the municipal fire department pump 375 GPM (1420 LPM) of water at this location?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. What is the unobstructed distance to the closest water supply that could be used for firefighting activities? (distance in metres only)	12 m	
4. What is the unobstructed distance to the closest approved water supply with year round access if there are no hydrants? ( distance in metres only)	N/A	

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**SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)**

The licence holder will complete Section B in consultation with the local Fire Services.

**8. Licence holder and local Fire Services Review**

**To be completed by the Local Fire Services**

Has the local fire service had an opportunity to review the Emergency Response and Preparedness Plan?

Yes No

If not, please explain (e.g., no fire services).

**Fire services comments, if any:**

The procedures and responsibilities of the approved Fire and Safety Plan shall be utilized in conjunction with the RSMP. An annual review of the Fire Safety Plan is required by the Ontario Fire Code.

**To be completed by the Licence Holder**

In response to the above comments, the following action(s) is required:

The licence holder will respond to the Local Fire Services comments by: \_\_\_\_\_  
(dd-mm-yyyy)

**LOCAL FIRE SERVICES**

The undersigned has reviewed Section B of the Risk and Safety Management Plan Fire Services.

Print name

Signature

Date (dd-mm-yyyy)

Local Fire Services Name

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Name of person completing this form (please print) Petar Martinovic	Official Title Tire Costco Manager	
Signature 	Telephone No. (905) 619-6677	Date (dd-mm-yyyy) 16-02-2012



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The licence holder will complete Section B in consultation with the local Fire Services.

8. Licence holder and local Fire Services Review

**To be completed by the Local Fire Services**

Has the local fire service had an opportunity to review the Emergency Response and Preparedness Plan?

Yes	No
<input checked="" type="checkbox"/>	<input type="checkbox"/>

If not, please explain (e.g., no fire services).

Fire services comments, if any:

The procedures and responsibilities of the approved Fire and Safety Plan shall be utilized in conjunction with the RSMP. An annual review of the Fire Safety Plan is required by the Ontario Fire Code.

**To be completed by the Licence Holder**

In response to the above comments, the following action(s) is required:

The licence holder will respond to the Local Fire Services comments by:

(dd-mm-yyyy)

**LOCAL FIRE SERVICES**

The undersigned has reviewed Section B of the Risk and Safety Management Plan Fire Services.

Print name <i>CHIEF FIRE PREVENTION OFFICER</i> Local Fire Services Name <i>KEITH DOUCETTE</i>	Signature 	Date (dd-mm-yyyy) <i>2012-01-09</i>
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**Declaration: I am aware that it is an offence to give false information in this document and I hereby declare that the information I have given here is true and complete.**

Name of person completing this form (please print) <i>Peter Martimovic</i>	Official Title <i>Assistant Warehouse Manager</i>
Signature	Telephone No. <i>(905) 619-6677</i>
	Date (dd-mm-yyyy)



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**SECTION C: SUBMISSIONS**

Applicant must include a Facility Site Plan and Map of Surrounding Area

**Facility Site Plan.**

The licence holder will submit a copy of the original facility site plan updated with the following information:

1. The storage location of fixed, portable, and mobile vessels.
2. The maximum volume, types and storage location of hazardous materials.
3. Location of permanent structures on site.
4. Access and egress points and location of barriers.
5. Location of fire and emergency equipment (e.g., sprinkler systems, extinguishers, suppression systems) on site and location of fire hydrant or water supply where available.
6. Location of emergency shut off/shut down switches/valves.

**Map of Surrounding Area.**

The licence holder will submit a scaled aerial map of the surrounding area showing the following information:

7. The capacity and placement of the single largest propane storage vessel, including its setback from the front, rear and side property lines.
8. GPS co-ordinates of the single largest vessel.
9. Visual indication of the single largest fixed vessel and a circle made using the distance in Table 1 as the radius from the single largest fixed vessel.
10. Clear indication of the municipality or municipalities present within the circle.
11. Visual indication of property line information.
12. The location and name of roads within or abutting the site.
13. Key note to the drawing indicating the facility's municipal address, municipal lot number(s) and concession lines as applicable, and the date the map was prepared.
14. Address and contact information for each municipality (municipal clerk or secretary-treasurers of planning board). (Refer to page 5.)
15. Complete "Required Mapping Information from Updated Site Plan" in table below .

**Required Mapping Information from Updated Site Plan**

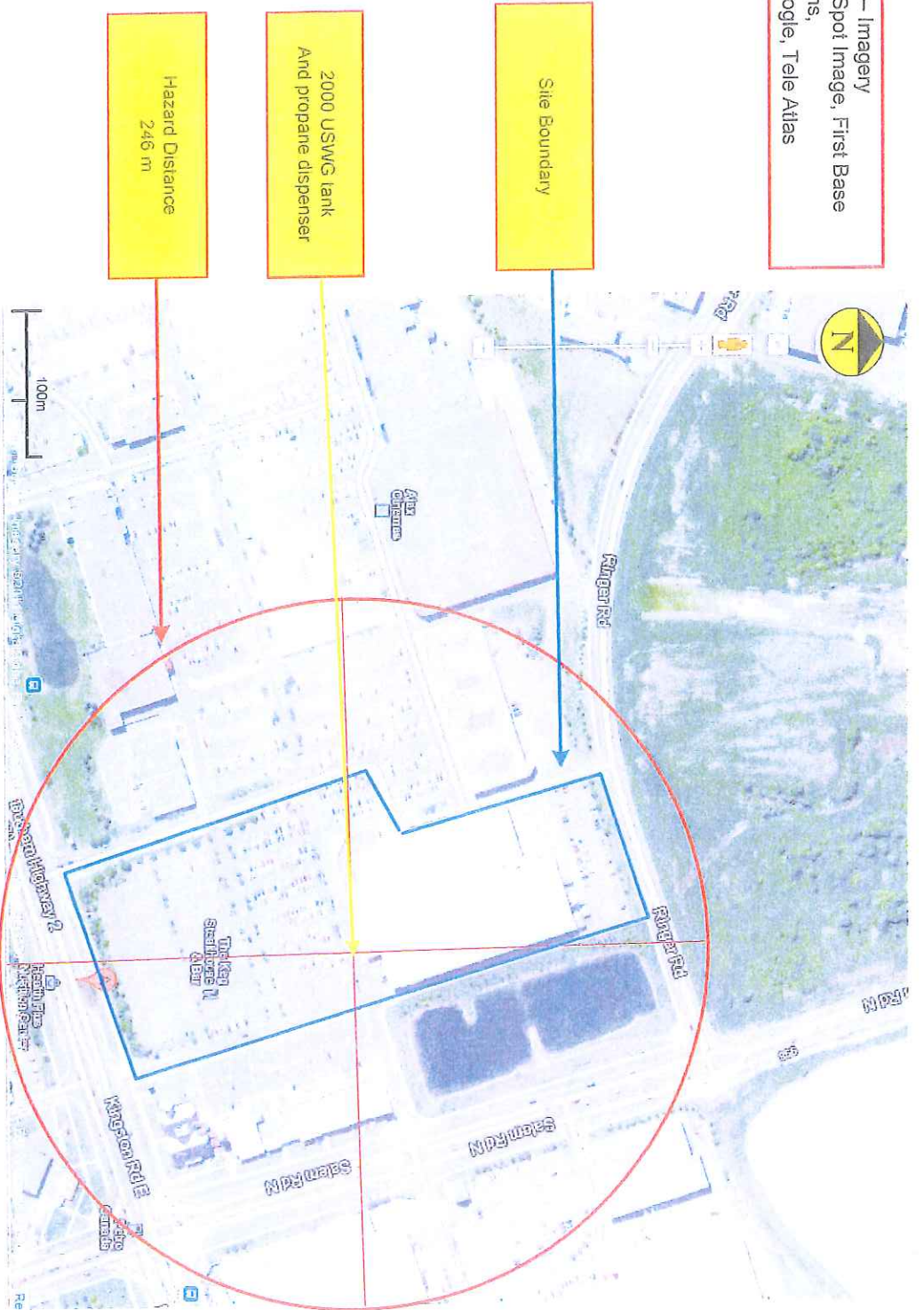
Date Map Prepared (dd-mm-yyyy) 12-10-2011	Capacity of single largest propane storage vessel (USWG) 2000 USWG
Tank setback coordinates. Indicate placement on the map.	
Front: 154 m South	Right side property line: 40 m East
Rear: 207 m North	Left side property line: 94 m West
GPS coordinates of single largest vessel: Lat.43.8646 Long.-79.0184	

**Declaration: I am aware that it is an offence to give false information in this document and I hereby declare that the information I have given here is true and complete.**

Name of person completing this form (please print) Petar Martinovic	Official Title Tire Center Manager
Signature 	Telephone No. (905) 619-6677
	Date (dd-mm-yyyy) 16-02-2012



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 Solutions,  
 Map data ©2011 Google, Tele Atlas



**Setback Distances to Site Boundary**  
 North: 390 m East: 75 m  
 South: 310 m West: 230 m

**Municipality (yes) within the 1 psi overpressure circle:**  
 Durham

**Capacity of Propane Storage Tank**

Capacity of Propane Storage Tank = 2000 USWG

**Municipal Contact**

Meegan Garrto  
 Service Coordinator  
 Town of Ajax  
 65 Harwood Avenue S, Ajax ON L1S 2H9  
 Phone: (905) 619-2529 x 3368

**GPS Co-ordinates of Propane Storage Tank**

GPS Co-ordinates = 43.8646, -79.0184

**Circle Distance to 1 psi overpressure**

Denoted by circle centred on tank; radial distance = 246 m

**Map of Surrounding Area**

Costco Wholesale Ltd.  
 150 Kingston Road E, Ajax ON  
 CON2 PT LOT 6, 7 NOW RP 40R14918 PART 3  
 AND RP 40R15728 PART 6

Drawn by: K.Almey

Date: Oct. 12, 2011



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www.tssa.org

14th Floor - Centre Tower  
3300 Bloor Street West  
Toronto Ontario M8X 2X4  
Fax: 416.231.4903  
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**Level 1 Risk and Safety Management Plan (RSMP)**  
*Technical Standards and Safety Act*  
Propane Storage and Handling Regulation

**SECTION C: SUBMISSIONS (cont'd)**  
Applicant must include a Facility Site Plan and Map of Surrounding Area

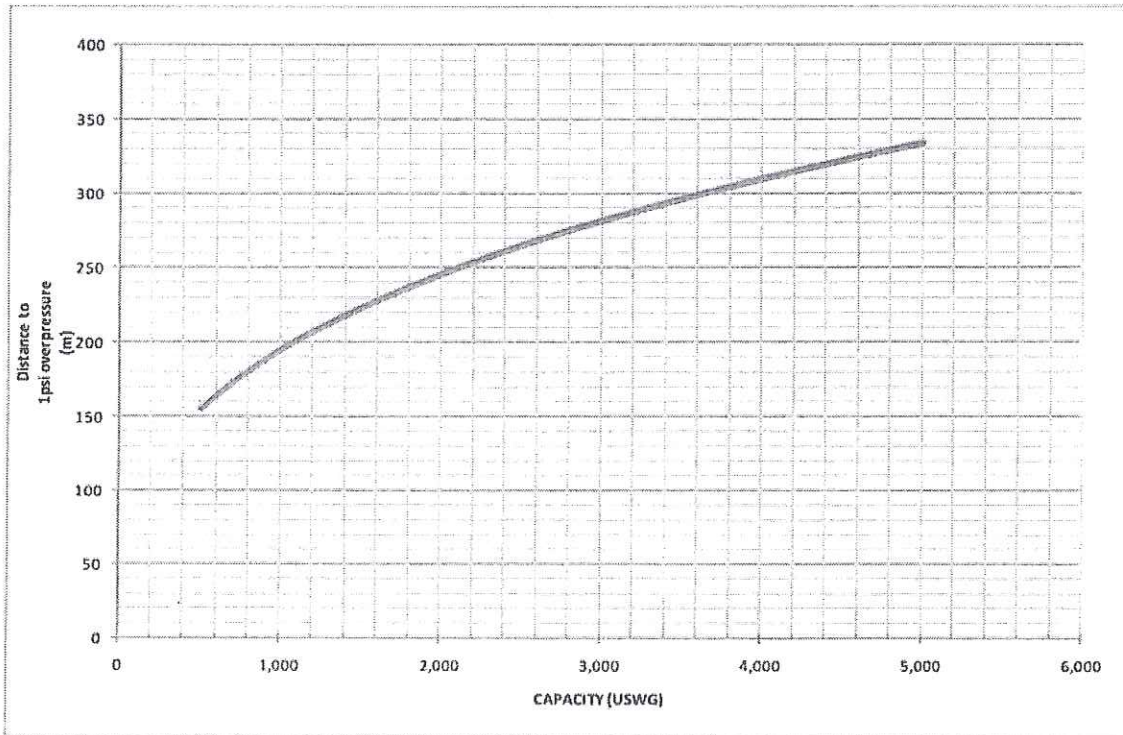
Table 1: Distance Table

Water Capacity (litres)	Nominal Water Capacity (USWG)	Distance to 1 psi overpressure (m)
1,890	500	155
3,780	1,000	195
4,920	1,300	213
6,620	1,750	235
7,130	1,885	241
7,560	2,000	246
18,900	5,000	333

**Formula:**  $D = 16.94 \times (1.524 \times C)^{1/3}$   
 D = Distance to overpressure of 1 psi (meters)  
 C = Tank Total Capacity in USWG

**Parameters:** Density of Propane is 0.5033 kg per litre @ 15 C  
 Assume all vessels are 80% full  
 1 gallon [US, liquid] = 0.003785411784 cubic meter  
 1 cubic metre = 264.17 USWG

Hazard Distance Chart (EPA-TNT model)







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**SECTION C: SUBMISSIONS (cont'd)**

Applicant must include a Facility Site Plan and Map of Surrounding Area

As an accompaniment to the Map of Surrounding Area, provide the following information about buildings and features present within the circle in Table 2.

Table 2: Buildings and Features

Buildings and Features Present within the Circle on the Map of the Surrounding Area AND Name and Address of Closest Building or Feature	* Number of Buildings and Features (mark with an "X")				Distance from Tank to Closest Building or Feature
	0	1	2-10	11+	
Industrial buildings or parks or golf courses Name: Green space across Ringer Road and between Costco building and Kingston Road Address: _____ City: _____ Province _____ Postal Code _____		X			65 m
Residential building units specifically permanent single family dwellings, condominiums, and apartments. [Redacted]	X				0 m
Commercial building units specifically retail, restaurants, entertainment, theatres, and sporting complexes. Name: Ajax Cinemas, multiple 'box store' retailers, The Keg Restaurant, Address: Kingston & Salem Road City: Ajax Province ON Postal Code _____				X	100 m
Commercial building units – continuous occupancy specifically hotels, campgrounds, and resorts. Name: None in Hazard Distance Address: _____ City: _____ Province _____ Postal Code _____	X				0 m
Sensitive institutions specifically hospitals, schools and day cares, nursing and retirement homes, mental health institutions, and prisons. Name: School-Time Daycare Address: 85 Kingston Road E City: Ajax Province ON Postal Code _____		X			150 m
Emergency responders specifically fire stations, ambulance stations, and police stations. Name: None in Hazard Distance Address: _____ City: _____ Province _____ Postal Code _____	X				0 m

\* For multi-unit buildings, count each unit as "1".

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Signature 	Telephone No. (905) 619-6677
	Date (dd-mm-yyyy) 16-02-2012



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**WORKSHEET**

**Portable Storage Additional Information Worksheet**

Cylinder Size	Capacity in USWG	Quantity	Total Volume in USWG
# 420	123.9		
# 100	29.5		
# 40	11.75		
# 33.3	9.62		
# 30	8.8	8	70.4 USWG
# 20	5.8	56	324.8 USWG
# 10	2.9		
# 5	1.5		
<b>Total Cylinder Capacity</b>			395.2 USWG

**Tanks Stored On-site Not Connected for Use**

Tank Size In USWG	Quantity	Total Volume in USWG
2000 USWG	1	2000 USWG
<b>Total Tank Capacity</b>		

<b>Total Cylinder Capacity</b>	395.2 USWG
<b>Total Tank Capacity</b>	2000 USWG
<b>Total Portable Capacity</b> (Total Cylinder Capacity + Total Tank Capacity)	2395.2 USWG