



Technical Standards and Safety Authority
 www.tssa.org

14th Floor - Centre Tower
 3300 Bloor Street West
 Toronto Ontario M8X 2K4
 Fax: 416.231.4903
 Customer Service: 1.877.682.8772

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

This Level 1 RSMP applies to: a facility with a total propane storage capacity of 5,000 USWG or less; or
 a facility with a fixed propane storage capacity USWG of portable propane storage capacity c

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*

License Number **76044294**

Check applicable type of propane operation:

Cylinders Motor Fill Filling Plant Card/Keylock

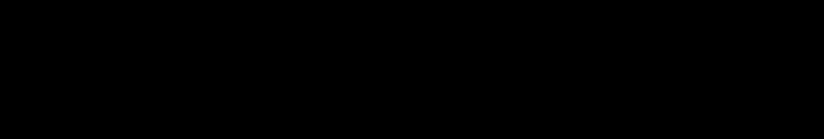
Submit along with this completed application a Facility Site Plan and a Map of the Surrounding Area

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.


Company Name A Costco Wholesale Canada Limited		Ontario Corporation No., if applicable
Operator Name (if different from above) Andrew Nowlitsky (Agent/Warehouse Manager)		
Telephone No. 1-800-463-3783	Fax No. N/A	E-mail anowlits@costco.ca
Street No. 44B	Street Name / R11 Number / Address, if applicable West Hunt Club Road	
Town / City or Township / County Ottawa	Province Ontario	Postal Code K2E 1G5
Mailing address if different from above.		
Street No.	Street Name / R11 Number / Address, if applicable	
Town / City or Township / County	Province	Postal Code

Information on Container Refill Centre or Filling Plant		
Location of facility		
Street No. D 100	Street Name / R11 Number / Address, if applicable Biscayne Crescent	Nearest Major Inter-Region Biscayne Cres. & First Gulf Blvd.
Town / City or Township / County Brampton	Province Ontario	Postal Code L6W 4S1

Name of License Holder Andrew Nowlitsky (Agent/Warehouse Manager) 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 Meyer	ROT type 100-08
Municipality (or municipalities if the facility or its licensed distri-bution touches multiple borders) City of Brampton, Regional Municipality of Peel	
Hours of operation 	

This document is valid until the next license renewal date. You are required by law to notify TSSA of any change of information.

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.

Print name Name of License Holder: Andrew Nowlitsky on behalf of Costco Wholesale Canada Ltd.	Signature 	Date (mm-dd-yyyy) 20/10/11
Name of Senior Management person as defined in the Regulation holding the Record of Training: Robert Meyer		



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SECTION A: GENERAL INFORMATION (cont'd)

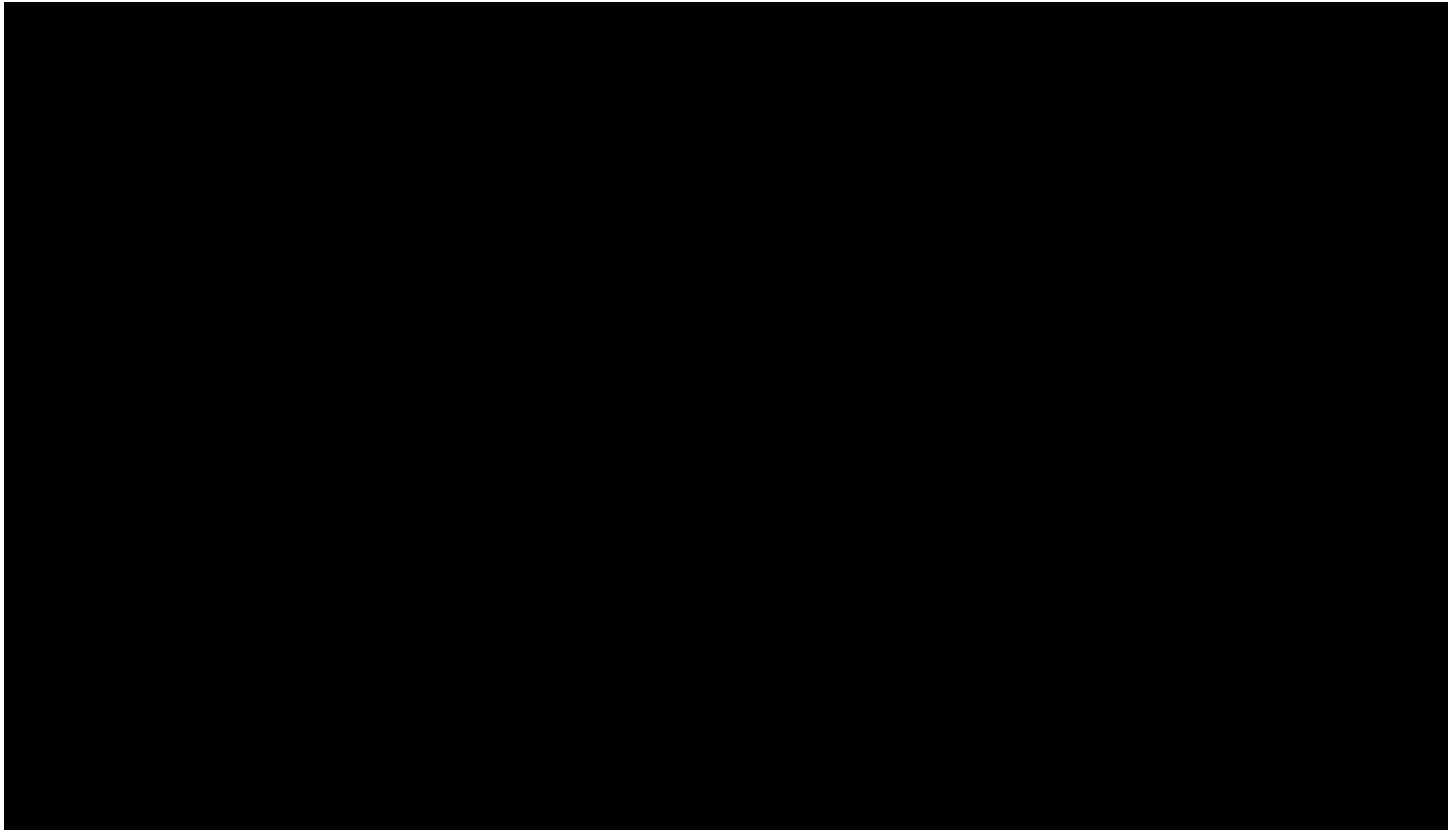
Indicate the year the facility was established. **2004** Indicate the year of any significant modifications, as defined in s.1, O.Reg 211/01, since establishment. **2010 - pac-man replaced**

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

	PSIG	Serial Number
Tank1:	250 PSIG	5592074
Tank2:		
Tank3:		

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: **331.2 USWG** Mobile: **0**



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Name of person completing this form (please print) Andrew Nowlisky on behalf of Costco Wholesale Canada Ltd.	Official Title Warehouse Manager
Signature 	Telephone No. (905) 450-9300
	Date (dd/mm/yyyy) 20/11/2011



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

Name of Propane Supplier(s)		[Redacted]	
Superior Propane - Ontario Regional Operations Centre			
Street No.	Street Name / 911 Number / Address, if applicable		
251	Woodlawn Road West, Unit 217		
Town / City or Township / Country		Province	Postal Code
Guelph		Ontario	N1H 6J1
Telephone No.	Fax No.	Contact Name	
1-877-873-7467	(519) 836-7766	Mike Mullins	
E-mail			
mullinsm@superiorpropane.com			

Name of Propane Transporter. If same as above, please check box. <input type="checkbox"/>		[Redacted]	
Superior Propane - Guelph			
Street No.	Street Name / 911 Number / Address, if applicable		
7022	Wellington Road 124 S		
Town / City or Township / Country		Province	Postal Code
Guelph		Ontario	N1H 6L3
Telephone No.	Fax No.	Contact Name	
(519) 831-8564	N/A	Jason Swan	
E-mail			
swanj@superiorpropane.com			

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

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

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Name of person completing this form (please print)	Official Title
Andrew Nowitsky on behalf of Canaco Wholesale Canada Ltd.	Warehouse Manager
Signature	Telephone No.
	(905) 450-9300
	Date (dd/mm/yyyy)
	20/11/2011



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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.
None

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

1. Fires Extinguisher - there are 2 fire extinguishers at the propane station.
2. Emergency stop push button - located on the exterior wall of the fire 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 fire 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 maintenance log at the site and kept for 5 years.

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Name of person completing this form (please print) Andrew Nowitsky on behalf of Costco Wholesale Canada Ltd.	Official Title Warehouse Manager
Signature 	Telephone No. (905) 450-9300
	Date (dd/mm/yyyy) 10/11/2011



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

1. Contacts for Emergency Response

1. Facility Contact Personnel - Key Contact		5. Facility 24-Hour Contact Person	
Name Assem Anif <i>Troy Hathaway</i>		Name Andrew Nowitsky	
Official Title Tire Centre Manager		Official Title Warehouse Manager	
Telephone No. (905) 450-9300 <i>450-1800</i>	Fax No. N/A	Cell No. (905) 450-9300	Fax No. (905) 450-7743
E-mail W162ism@COSTCO.COM		E-mail W159MGR@COSTCO.COM	
Role and responsibilities in emergency coordinate site response		Role and responsibilities in emergency coordinate site response	
2. Facility Contact Personnel - Alternate Contact		6. Name of Facility Manager	
Name Rob Mclean		Name Andrew Nowitsky	
Official Title Assistant Warehouse Manager		Official Title Warehouse Manager	
Telephone No. (905) 450-9300	Fax No. (905) 450-7743	Telephone No. (905) 450-9300	Fax No. (905) 450-7743
E-mail rmclean@telusblackberry.net		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	
3. Local Fire Services - Key Contact		7. Propane Supplier Key Contact Person	
Name Gary Lagerquist	For Office Use - Party No.	Name Superior Propane Hotline	For Office Use - Party No.
Official Title Deputy Fire Chief	E-mail gary.lagerquist@brampton.ca	Official Title	E-mail
Telephone No. (905) 874-2722	Fax No. (905) 874-2727	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 Brampton Emergency Services, 8 Rutherford Road S, Brampton, ON L6W3J1		Propane Supplier Address 251 Woodlawn Road West, Unit 217, Guelph, ON	
4. Local Fire Services - Alternate Contact		8. Municipal Contact	
Name Brian Maltby	For Office Use - Party No.	Name John Corbett	
Official Title Division Chief - Fire Prevention	E-mail brian.maltby@brampton.ca	Official Title Commissioner of Planning, Design, and Development	
Telephone No. (905) 874-2741	Fax No. (905) 874-2735	Telephone No. (905) 874-2000 ext. 2055	Fax No. N/A
Role and responsibilities in emergency assist with the coordination of Fire Service response and liaise with police		E-mail N/A	
Fire Services Address Brampton Emergency Services, 8 Rutherford Road S, Brampton, ON L6W3J1		Municipality Name and Address City of Brampton, 2 Wellington Street West, Brampton, ON L8Y 4R2	

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Name of person completing this form (please print) Andrew Nowitsky on behalf of Costco Wholesale Canada Ltd.	Official Title Warehouse Manager
Signature <i>[Signature]</i>	Telephone No. (905) 450-9300
	Date (dd/mm/yyyy) 16/11/2011



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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) Andrew Nowitsky on behalf of Costco Wholesale Canada Ltd.	Official Title Warehouse Manager	Date (yy-mm-dd) 10/4/2011
Signature 	Telephone No. (805) 450-9300	



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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) As Required	Print Name of Training Provider: FSN Training or Alternate	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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Name of person completing this form (please print) Andrew Nowlisky on behalf of Costco Wholesale Canada Ltd.	Official Title Warehouse Manager
Signature 	Telephone No (905) 450-9300
	Date (dd-mm-yyyy) 10/11/2011



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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) 4Q 2011	Print Name of Training Provider: Superior Propane or Other PLEASE NOTE - the course content is currently being developed by the industry and should be available for teaching in the fourth quarter of this year
	Print Name of Instructor: TBA
Target Date (dd-mm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:

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

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) 4Q 2011	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:

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

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:
Target Date (dd-mm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:

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Name of person completing this form (please print) Andrew Nowitsky on behalf of Costco Wholesale Canada Ltd.	Official Title Warehouse Manager
Signature 	Telephone No. (905) 450-9300
	Date (dd/mm/yyyy) 10/11/2011



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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 owner/operator may 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 entrance to the facility, at Blacayne Cres., at least 150 m 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 Blacayne Crescent.

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 by key contact, Azeem Anif, if 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 the key contact, Azeem Anif, approximately 30 minutes to arrive on site after having received the emergency call

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Signature 	Telephone No. (905) 450-9300	Date (dd-mm-yyyy) 10/11/2011



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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 type="checkbox"/> | <input checked="" 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 type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8. Are quality assurance procedures in place to ensure that all valves are closed after the propane cylinders are filled?(e.g., OCC 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) | <u>12 m</u> | |
| 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) | <u>N/A</u> | |

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Name of person completing this form (please print) Andrew Nowitaky on behalf of Costco Wholesale Canada Ltd.	Official Title Warehouse Manager
Signature 	Telephone No. (905) 450-9300
	Date (dd-mm-yyyy) 10/11/2011

December 21, 2011

Deputy Fire Chief - Gary Lagerquist
Brampton Fire and Emergency Services
8 Rutherford Road South
Brampton, Ontario
L6W 3J1

Dear Deputy Chief Lagerquist;

As you are aware, the new Ontario Regulation 211X01 requires all propane handlers in Ontario to complete a Risk and Safety Management Plan (RSMP).

This RSMP is required by the Technical Standards and Safety Authority (TSSA) in order to renew a propane license.

Part of the process includes that the local Fire Department review the RSMP.

Therefore, we kindly ask you to review this RSMP for Costco Wholesale Ltd., located at 100 Biscayne Crescent in Brampton.

Please complete page 11, with your comments and recommendations, sign, and return to:

Kelly Almey
Risk & Process Safety Coordinator
6860 Century Avenue
East Tower, Suite 2001
Mississauga, ON L5N 2W5

Phone: (905) 285-2480 ext. 5549
Fax: (905) 542-2106
Email: kelly_almey@superiorpropane.com

Thank you in advance for your attention to this matter.

Sincerely,

Kelly Almey
Process Safety Coordinator
Telephone: (905) 285-2480 x5549
Fax: (905) 542-2106
Kelly_Almey@superiorpropane.com

Enclosure: 1



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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.

B. 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:

PLEASE SEE THE APPROVED "FIRE SERVICE INFORMATION FORM REVIEW AND COMMENTS FOR LEVEL 1 RSMP".

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.

Local Fire Services Name	Print name Brian MALBY	Signature <i>Brian</i>	Date (dd-mm-yyyy) 04/01/2012
--------------------------	---------------------------	---------------------------	---------------------------------

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) Andrew Nowlasky on behalf of Costco Wholesale Canada Ltd.	Official Title Warehouse Manager
Signature <i>[Signature]</i>	Telephone No. (805) 450-9200
	Date (dd-mm-yyyy) 10/11/2011

Additional Fire Service Comments:

[Empty box for additional fire service comments]

12.01.04.
Date

Brian Maltby, Chief Fire Official
Print Name


Signature



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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) 17-05-2011	Capacity of single largest propane storage vessel (USWG) 2000 USWG
Tank setback coordinates. Indicate placement on the map.	
Front: 180 m South	Right side property line: 190 m East
Rear: 62 m North	Left side property line: 67 m West
GPS coordinates of single largest vessel:	Lat. 43.6831 Long. -79.7131

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) Andrew Nowitsky on behalf of Costco Wholesale Canada Ltd.	Official Title Warehouse Manager
Signature 	Telephone No. (905) 450-9300
	Date (dd-mm-yyyy) 10/11/2011

STEELES AVENUE

999 LAKE DRIVE
ISSAQUAH, WA 98027

PROJECT ADDRESS: 100 BISCAYNE CRESCENT
BRAMPTON, ONTARIO

ZONING: M-4 (INDUSTRIAL FOUR)

SITE AREA: 11.72 ACRES (510,378 S.F.)

JURISDICTION: CITY OF BRAMPTON, ONTARIO

SETBACKS: 15 M ADJ. TO STEELES AVE.
13.72 M ADJ. TO HWY. 410
4 M ADJ. TO OTHER PROP.

BOUNDARIES
INFORMATION: THIS PLAN HAS BEEN PREPARED
BY USING MARSHALL, MACKLIN,
MOGHANAH CIVIL SITE PLAN
DATED 6/29/94.

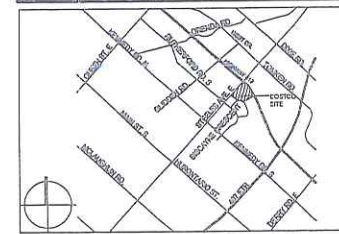
BUILDING DATA:
EXIST. BUILDING AREA 126,648 S.F.
EXIST. TIRE CENTER 5,184 S.F.
TOTAL EXIST. BUILDING 131,832 S.F.
EXIST. ENCLOSED CANOPY 5,149 S.F.

PARKING DATA:
10' WIDE STALLS 449 STALLS
9' WIDE STALLS 152 STALLS
12 HANDICAP STALLS 12 STALLS
TOTAL EXIST. PARKING 613 STALLS

NO. OF STALLS PER 1000 S.F.
OF BUILDING AREA: (131,832 S.F.) 4.65 STALLS

NOTES:
EXISTING CONDITIONS TO BE FIELD VERIFIED.

VICINITY MAP



- Fire Extinguishers
- ▶ Emergency Stop Push-Button



BRAMPTON
#162
100 BISCAYNE CRESCENT
BRAMPTON, ON

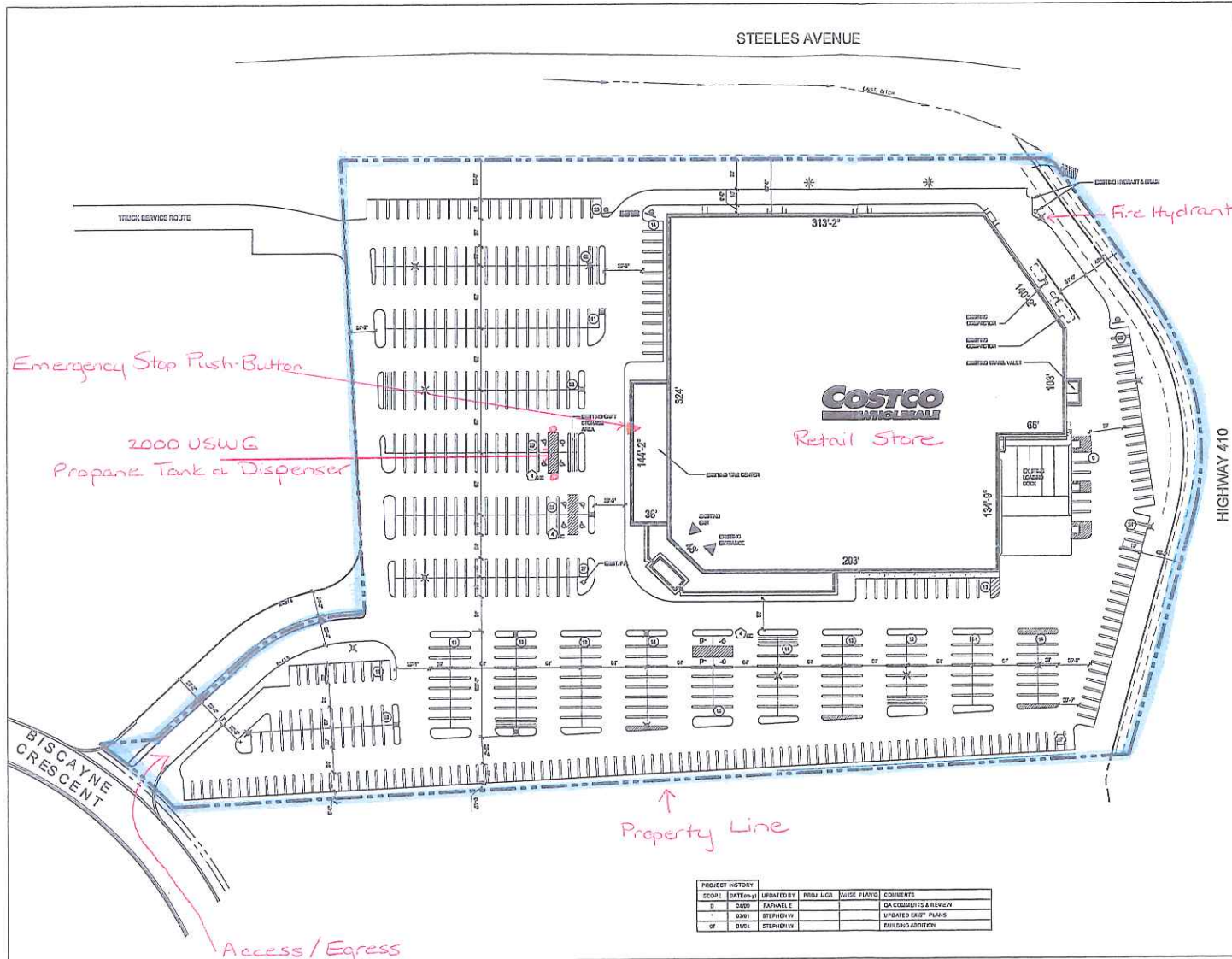
MITCHELL C. SMITH

1100 117th AVE. DR. | SUITE 200
BELLINGHAM WA 98224
425.425.1000 | 425.425.2002

www.costco.com

95-1580
JULY 10, 2004
EXISTING
SITE
PLAN

EX1.1



PROJECT HISTORY					
DCODE	DATE	BY	PROJ. MGR.	W/IDE PLANS	COMMENTS
01	03/07	STEPHENS			QA COMMENTS & REVISION
02	03/07	STEPHENS			UPDATED EXIST PLANS
03	03/07	STEPHENS			BUILDING ADDITION

COSTCO WHOLESALE

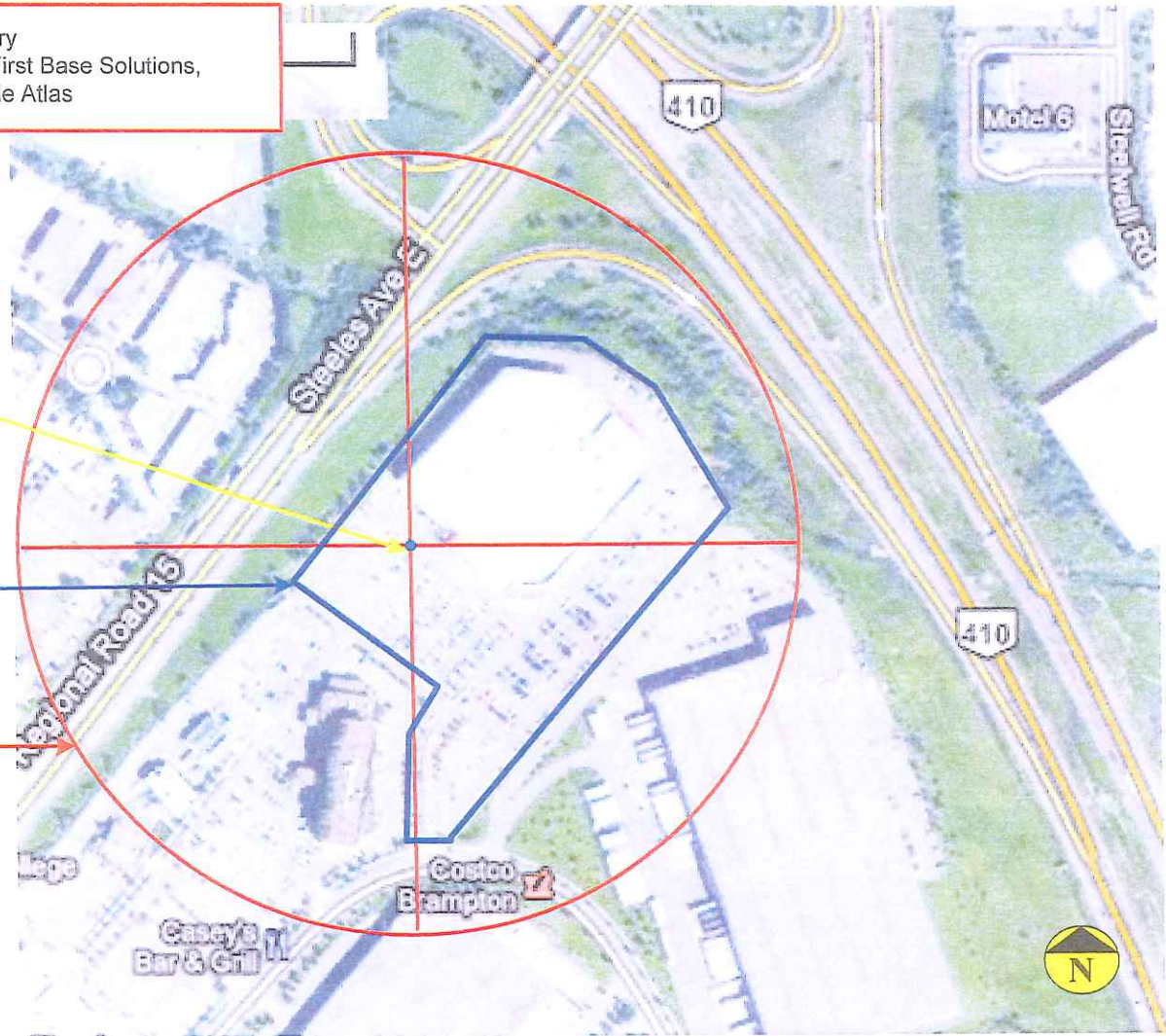
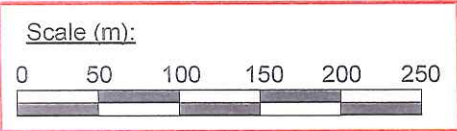
EXISTING SITE PLAN

©2011 Google – Imagery
 ©2011 Digital Globe, Cnes/Spot Image, First Base Solutions,
 Map data ©2011 Google, Tele Atlas

2000 USWG
 Propane Tank

Site Boundary

Hazard Distance
 = 246 m



Setback Distances to Site Boundary	North : 62 m South: 160 m	East: 190 m West: 67 m
Capacity of Propane Storage Tank:	Capacity of Propane Storage Tank = 2000 USWG	
GPS Co-ordinates of Propane Storage Tank:	GPS Co-ordinates = 43.6833, -79.7121	
Circular Distance to 1 psi overpressure:	Denoted by circle centred on tank; radial distance = 246 m	

Municipality (ies) within the 1 psi overpressure circle:	Peel
Municipal Contact:	Kathy Zammit City Clerk, City of Brampton 2 Wellington Street West, Brampton, ON, L6Y 4R2 Tel: 905-874-2101 email: cityclerksoffice@brampton.ca

Map of Surrounding Area	
Costco Wholesale Ltd. 100 Biscayne Crescent, Brampton, ON, L6W 4S1 PLAN M947 PT BLK 2 RP 43R20315 PART 1,2,3	
Drawn by: K.Almey	Date: Oct. 12, 2011



Technical Standards and Safety Authority
www.tssa.org

14th Floor - Centre Tower
3900 Bloor Street West
Toronto Ontario M8X 2X4
Fax: 416.231.4903
Customer Service: 1.877.682.8772

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

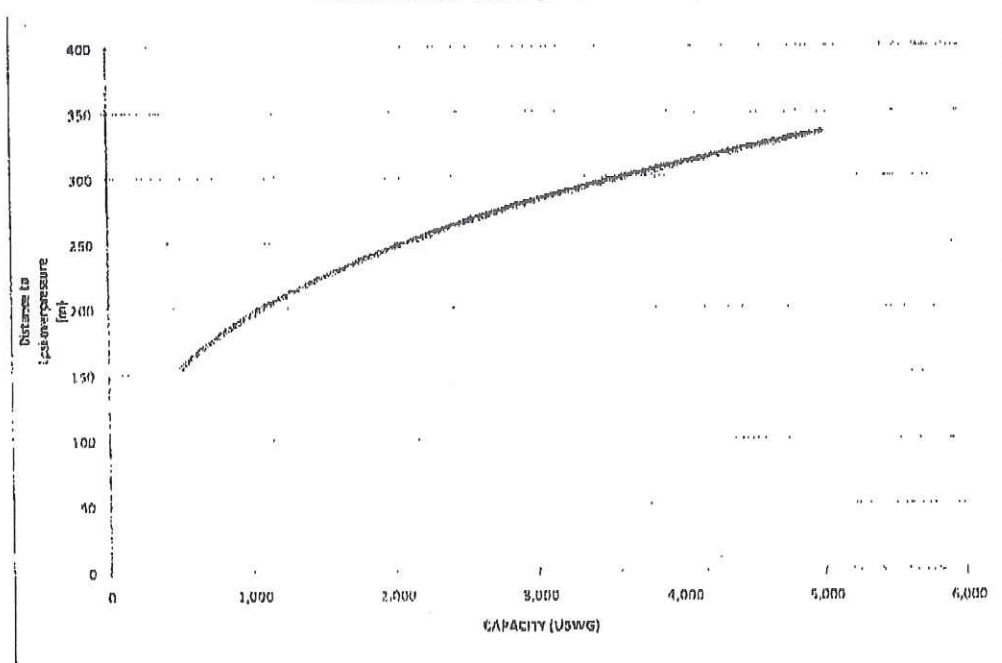
Table 1: Distance Table

Water Capacity (litres)	Nominal Water Capacity (USWG)	Distance to 1 psi overpressure (m)
1,090	500	156
3,780	1,000	195
4,920	1,300	210
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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www.tssa.org

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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: <u>None</u> Address: _____ City: _____ Province _____ Postal Code _____	X				<u>0</u> m
Residential building units specifically permanent single family dwellings, condominiums and apartments [Redacted]				X	<u>125</u> m
Commercial building units specifically retail, restaurants, entertainment, theatres, and sporting complexes. Name: <u>Tim Hortons/Wendy's, Applebees Bar & Grill (134m), Cineplex Odeon Cinemas (269 m)</u> Address: <u>60 Blacayne Crescent</u> City: <u>Brampton</u> Province <u>ON</u> Postal Code <u>L6W 4S1</u>			X		<u>104</u> m
Commercial building units - continuous occupancy specifically hotels, campgrounds, and resorts. Name: <u>Courtyard Toronto Brampton</u> Address: <u>60 Blacayne Crescent</u> City: <u>Brampton</u> Province <u>ON</u> Postal Code <u>L6W 4S1</u>		X			<u>169</u> m
Sensitive institutions specifically hospitals, schools and day cares, nursing and retirement homes, mental health institutions, and prisons Name: <u>None</u> Address: _____ City: _____ Province _____ Postal Code _____	X				<u>0</u> m
Emergency responders specifically fire stations, ambulance stations, and police stations. Name: <u>None</u> Address: _____ City: _____ Province _____ Postal Code _____	X				<u>0</u> m

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

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) Andrew Nowlisky on behalf of Costco Wholesale Canada Ltd.	Official Title Warehouse Manager
Signature 	Telephone No. (905) 450-9300
	Date (dd-mm-yyyy) 16/11/2011



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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	6	52.8 USWG
# 20	5.8	48	278.4 USWG
# 10	2.9		
# 5	1.5		
Total Cylinder Capacity			331.2 USWG

Tanks Stored On-site Not Connected for Use

Tank Size In USWG	Quantity	Total Volume in USWG
2000 USWG	1	2000 USWG
Total Tank Capacity		2000 USWG

Total Cylinder Capacity	331.2 USWG
Total Tank Capacity	2000 USWG
Total Portable Capacity (Total Cylinder Capacity + Total Tank Capacity)	2331.2 USWG