



Technical Standards and Safety Authority
www.tssa.org

14th Floor - Centre Tower
3300 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

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 of exactly 5,000 USWG and no more than 500 USWG of portable propane storage capacity on site.

<p>Failure to fully complete this form may result in rejection. Making a false statement may result in a fine or prosecution under the <i>Technical Standards and Safety Act</i></p>	<p>For Office Use Only</p> <div style="background-color: black; width: 100%; height: 100%;"></div>
<p>Licence Number <u>0076499227-C</u></p> <p>Check applicable type of propane operations.</p> <p><input checked="" type="checkbox"/> Cylinder <input type="checkbox"/> Motor Fill <input type="checkbox"/> Filling Plant <input type="checkbox"/> Card/Keylock</p> <p>Submit along with this completed application a Facility Site Plan and a Map of the Surrounding Area.</p>	

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.

<p>A Company Name <u>Costco Wholesale Ltd.</u></p> <p>Operator Name (if different from above) <u>Neil Mcleod (Warehouse manager @ Ancaster store)</u></p> <p>Telephone No. <u>1-800-463-3783</u> Fax No. E-mail <u>service@costco.ca</u></p>	<p>Ontario Corporation No., if applicable</p>
<p>B Street No. <u>415</u> Street Name / 911 Number / Address, if applicable <u>West Hunt Club Road</u></p> <p>Town / City or Township / County <u>Ottawa</u> Province <u>Ontario</u> Postal Code <u>K2E 1C5</u></p>	
<p>C Mailing address if different from above.</p> <p>Street No. Street Name / 911 Number / Address, if applicable</p> <p>Town / City or Township / County Province Postal Code</p>	
<p>Information on Container Refill Centre or Filling Plant</p> <p>Location of facility.</p> <p>D Street No. <u>100</u> Street Name / 911 Number / Address, if applicable <u>Legend Court</u> Nearest Major Intersection <u>Lincoln Alexander Pkwy and Highway 403</u></p> <p>Town / City or Township / County <u>Ancaster</u> Province <u>Ontario</u> Postal Code <u>L9K 1J3</u></p>	
<p>Name of Licence Holder <u>Neil Mcleod (Warehouse manager @ Ancaster store)</u></p> <p>Name of a Senior Management person as defined in the regulation holding the Record of Training (ROT). <u>Robert Moyer</u> ROT type <u>PTI 100-08</u></p> <p>Municipality (or municipalities if the facility or its hazard distance touches multiple borders) <u>Ancaster</u></p> <p>Hours of operation.</p> <div style="background-color: black; width: 100%; height: 50px;"></div>	

This document is valid until the next licence 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.

<p>Print name</p> <p>Name of Licence Holder <u>Neil Mcleod</u></p> <p>Name of Senior Management person as defined in the Regulation holding the Record of Training <u>Robert Moyer</u></p>	<p>Date (dd-mm-yyyy) <u>23/06/2011</u></p>
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SECTION A: GENERAL INFORMATION (cont'd)

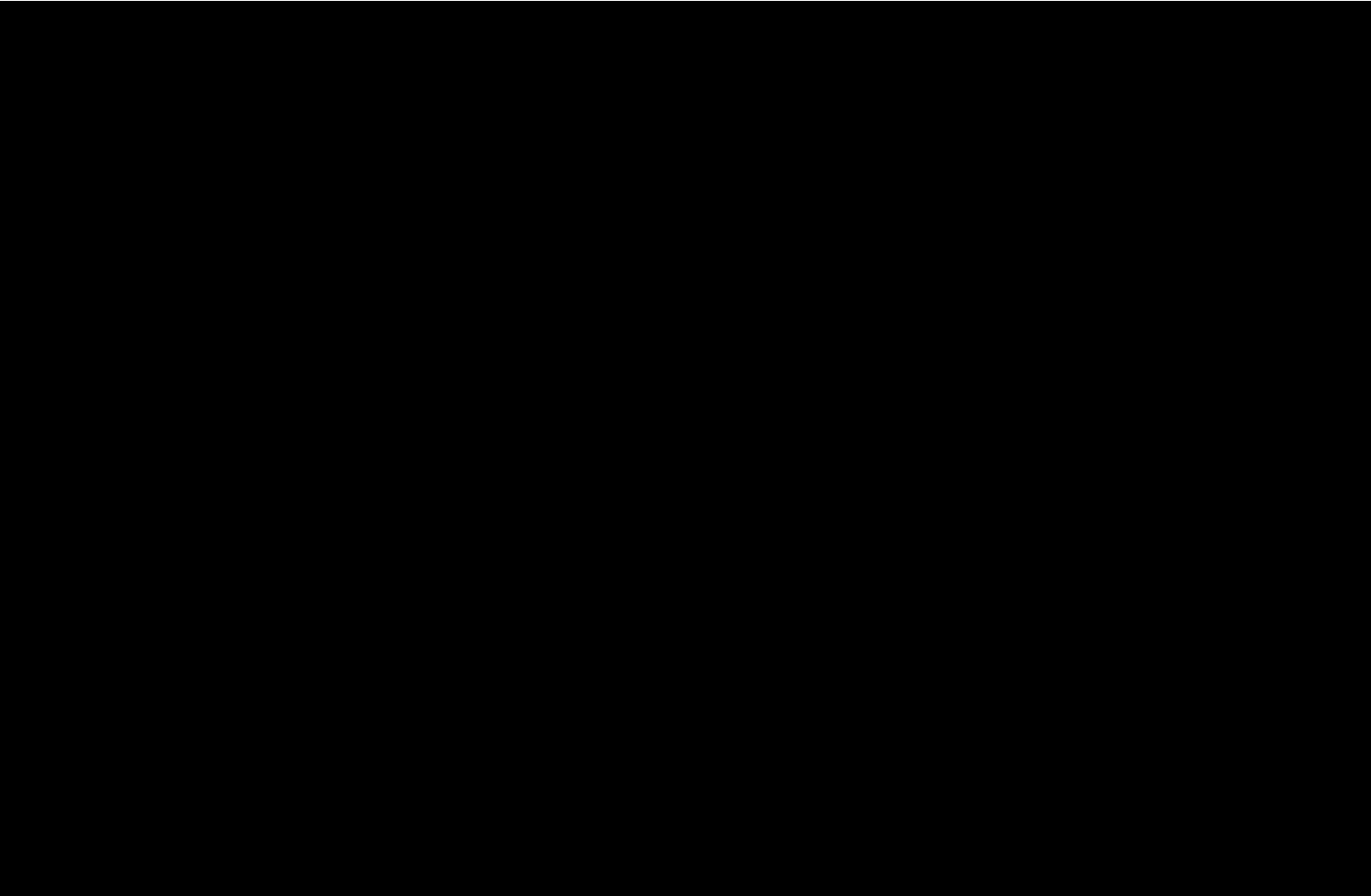
Indicate the year the facility was established. 1996 Indicate the year of any significant modifications, as defined in s.1, O.Reg 211/01, since establishment. 2008, 2011

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

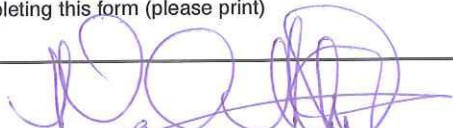
	PSIG	Serial Number
Tank 1:	<u>250 PSIG</u>	<u>5.563341</u>
Tank 2:	_____	_____
Tank 3:	_____	_____

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: 418 USWG Mobile: 0



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Name of person completing this form (please print) <u>Neil Mcleod</u>	Official Title <u>Warehouse Manager</u>
Signature 	Telephone No. <u>905-330-0306</u> Date (dd-mm-yyyy) <u>23/06/2011</u>



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SECTION A: GENERAL INFORMATION (cont'd)

Activity Information

Name of Propane Supplier(s) 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					

Name of Propane Transporter. If same as above, please check box. <input type="checkbox"/>			For Office Use - Party No.		
Superior Propane - Smithville Propane Bulk Plant					
Street No. 3089	Street Name / 911 Number / Address, if applicable Regional Road #12				
Town / City or Township / Country Smithville			Province Ontario	Postal Code L0R 2A0	
Telephone No. (905) 516-2301	Fax No.	Contact Name Tom Amies			
E-mail amiest@superiorpropane.com					

Off-site Cylinder and/or Mobile Storage 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	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) Neil Mcleod		Official Title Warehouse Manager	
Signature 		Telephone No. 905-330-0306	Date (dd-mm-yyyy) 12/10/2011



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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.

Underground gasoline storage tanks - 4 tanks; each 75,000 litres for a total capacity of 300,000 litres.

~~the tanks are located at the north-east corner of the redeveloped site, about 120 m from the propane tank. [see redevelopment Site Plan]~~

~~the are no credible domino interactions between the gasoline tanks and the propane tank.~~

~~There is also a 22 gallon drum of gasoline in the Tire install area.~~

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

Fire extinguishers - 20# ABC located inside propane filling station; multiple in warehouse - nearest of which is in the tire centre; gasoline pumps

about 130 m east of propane tank.


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. ISC flow valve: Closed by fusible link melting in fire scenario, or by closing door of pump enclosure. This stops flow from tank.
2. System contains 3 leak detectors (2 scale units; 1 pump enclosure) which trigger system shutdown @ 60% LFL (cuts all power except 24 VDC).
3. E-Stops: one on the fuelling island, one inside building (at MCCB) This is the Master Control Centre Board for all Fire signals. This cuts all power except 24 volts to the propane system. 4. Leak Detection System triggers audible alarm.

Maintenance and testing schedule for fire protection controls and devices.

Fire extinguishers will be replaced as per manufacturer's recommendations. The gas detection/auto shutdown/auto alarm system will be maintained/tested every 6 months by Total Meter Service. Other equipment - i.e., pumps, valves, etc. will be maintained/tested by Superior Propane according to the requirements in the Superior Propane Maintenance Standard. According to this Standard - ISC valves will be tested every 6 months; pumps will be maintained every 3 months. Fusible links will be inspected every 6 months. Fire Extinguishers maintained in accordance with the Ontario Fire Code.

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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 Peter Chernoff	For Office Use - Party No.	Name Neil Mcleod	For Office Use - Party No.
Official Title Tire Centre Manager		Official Title Warehouse Manager	
Telephone No. 905-304-3704	Fax No. 905-304-0407	Cell No. 905-330-0306	Fax No. 905-304-0407
E-mail W517tsm@costco.com		E-mail W517mgr@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 Wayne Buffong	For Office Use - Party No.	Name Neil Mcleod	For Office Use - Party No.
Official Title Assistant Warehouse Manager		Official Title Warehouse Manager	
Telephone No. 905-304-0344	Fax No. 905-304-0407	Telephone No. 905-330-0306	Fax No. 905-304-0407
E-mail W517mgr4@costco.com		E-mail W517mgr@costco.com	
Role and responsibilities in emergency Coordinate site response if agent unavailable.		Role and responsibilities in emergency Coordinate site response	
3. Local Fire Services - Key Contact		7. Propane Supplier Key Contact Person	
Name Rob Simonds	For Office Use - Party No.	Name Superior Propane Hotline	For Office Use - Party No.
Official Title Fire Chief		Official Title	
Telephone No. 905-546-2424 Ext: 3343	Fax No. 905-546-3344	Telephone No. 1-877-873-7467	Fax No. N/A
E-mail N/A		E-mail	
Role and responsibilities in emergency Coordinate/advise on Hamilton Fire Service response. Liaise with police.		Role and responsibilities in emergency Identify and dispatch Superior Propane and or LPERGC emergency response personnel as required.	
4. Local Fire Services - Alternate Contact		8. Municipal Contact	
Name Dave Cunliffe	For Office Use - Party No.	Name Rose Caterini	For Office Use - Party No.
Official Title Deputy Fire Chief		Official Title City Clerk	
Telephone No. 905-546-2424 Ext: 3340	Fax No. 905-546-3344	Telephone No. 905-546-2424 Ext: 5409	Fax No. 905-546-2095
E-mail N/A		E-mail clerk@hamilton.ca	
Role and responsibilities in emergency Alternate - Coordinate/advise on Hamilton Fire Service response. Liaise with police.		Municipality City of Hamilton	

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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.

1. System contains 3 leak detectors (2 scale units; 1 pump enclosure) which trigger system shutdown @ 60% LFL (cuts all power except 24 VDC).
2. E-Stops: one on the fuelling island, one inside building (at MCCB) - cuts all power except 24 DC; shuts down pump; closes solenoid valves to stop flow.
3. Leak Detection System triggers audible alarm.
4. The Fire hydrant on site is private and the flow tests show the rates are much more than is required under the NFPA standards for maintaining a 2000 USWG propane tank cool in the event of a fire.

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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) January 2011	Print Name of Training Provider: <u>Unknown</u>
	Print Name of Instructor: <u>Susan Morissey</u>
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:

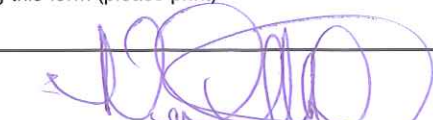
Training on the facility's Emergency Management Procedures provided to staff.

Training Date (dd-mm-yyyy) None	Print Name of Training Provider:
	Print Name of Instructor:
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) 28-01-2010	Print Name of Training Provider: <u>Propane Training Institute</u>	<i>Please note - ROT valid for 3 years.</i>
	Print Name of Instructor: <u>Jack Trayling</u>	
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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Signature 	Telephone No. <u>905-330-0306</u>
	Date (dd-mm-yyyy) <u>12/10/2011</u>



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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) 12-01-2010	Print Name of Training Provider: Susan Morissey	Please note - the course content is currently being developed by the TSSA and should be available for teaching in the fourth quarter of this year
	Print Name of Instructor: Susan Morissey	
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:	


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

Target Date (dd-mm-yyyy) Q4 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:
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) 17/03/2011	Print Name of Training Provider: Propane Training Institute	Please note - ROT valid for 3 years.
	Print Name of Instructor: Jack Trayling	
Target Date (dd-mm-yyyy) As Required	Print Name of Training Provider: Superior Propane, FSN, PTI, or Other	
	Print Name of Instructor: TBA	
Target 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)

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

5. Emergency Response Communications Plan

Warnings and Actions

Describe what actions are to be taken, and how and by whom the actions will be taken including public notification as appropriate. The owner/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.

Note: When contacting 911, identify situation and who is calling and it is in relation to the propane storage. Also give store address & ask for Police & Fire.

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 owner/operator or alternate should first follow the actions in the ERP's provided herein. Staged evacuation, if the release of propane cannot be stopped cutting electrical power may be required. Initial muster locations will be on the southeast corner of the parking lot, along Martindale Crescent, at least 230 m away from the site and away from a dispersing propane cloud. The "Muster" location is outside the Hazard Distance so no further evacuation should be required. 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 by E-stop at tank.
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. May evacuate entire store)

Describe provisions for fire department entry when there are no operations or staffing at the propane site.
Costco will post weatherproof signs at the tank E-stops so First Responders can easily identify the locations
The propane tank system is located in a wide open area that is easily accessible from Legend Court or Martindale Crescent.
The access routes for fire trucks are identified in the attached site plan.
After hours contact for Costco Warehouse is.

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 site staff are at 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).

Who will take the facility liaison person to respond to the site?
Approximately 20 minutes after having received the emergency call.

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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., 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)	5 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.

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:

SEE ATTACHED APPENDIX 'A'

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 CHIEF PRO PREVENTION OFFICER Local Fire Services Name FRANK BIANCUCCI	Signature <i>[Signature]</i>	Date (dd-mm-yyyy) Sept 16 / 11
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Name of person completing this form (please print)	Official Title
Signature	Telephone No. Date (dd-mm-yyyy)

Appendix 'A'
Level 1 Risk and Safety Management Plan
Costco
100 Legend Court

1. Section B page 4
 - a. List of Fire Protection controls....
 - i. Item # 3 E-Stops ...please elaborate on 'inside building at MCCB
2. Maintenance and testing schedule for fire Protection controls
 - a. Re fire extinguishers – Must be maintained in accordance with the Ontario Fire Code.
3. Section B – Contacts for Emergency Response Page 5
 - a. # 3 Local Fire Services – Key Contact telephone # 905 546 2424 x 3343
 - b. #4 Alternate contact telephone # 905 546 2424 x 3340
 - c. #8 Municipal Contact -- 905 546 2424 x 5409
4. Section 8 – Emergency Response Contact Page 9
 - a. Describe who gives warning ...
 - i. In contacting 911 most important component is to identify situation relative to real time problem, identify who is calling and identify address in question.
 - b. Describe what action is to be taken...
 - i. Information notes that the initial evacuation will be to 230 m away from propane installation – with further evacuation to HD to be determined with first responders. A review of Hazard Distance information provided indicates that the initial evacuation is almost to the hazard distance in fact the muster location at the south east corner of parking lot is outside of the hazard distance – see Google imagery.
 - ii. For consideration – given the location of the retail store within the proximity of the propane tanks and the HD, strongly suggest that consideration be given to evacuating persons in the store also and moving them to the mustering location in the event of an emergency with the propane.
5. Communication with Emergency Response Authorities
 - a. Re sentence #3 'calling 911 will occur immediately after any attempts to shut down the system.' Should only apply to E stop at the tank, if not operable or won't shut down 911 is to be called before E stop by fire area is activated.
 - b. Weather proof sign/picture and operation of E stops be posted near both E stops to assist responding crews in identifying the E stops and taking corrective action for after hour's response.
 - c. Contact list of RP's for facility including after hours contact shall be included in this section – this information can be catalogued with HES Fire Dispatch so that RP's can be contacted after hours in the event of an emergency.

6. **Section B 7. Water Supply** – after a review of information provided, the hydrants in question on this property are in fact private hydrants and this distinction should be noted on this page – corresponding flow rates as a result of an actual hydrant flow test of these hydrants provide sufficient flow.
7. **Superior Propane Emergency Response Procedures**
 - a. One page information sheet has blank fields that should be inputted directing people to contact 911 in the event of any emergency
 - b. Strongly recommended that the noted information sheet be posted both at the propane filling area but also by the Tire Shop.



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www.tssa.org

14th Floor - Centre Tower
3300 Bloor Street West
Toronto Ontario M8X2X4
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

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) 23/06/2011	Capacity of single largest propane storage vessel (USWG) 2000 USWG
Tank setback coordinates. Indicate placement on the map.	
Front: 196 m (south)	Right side property line: 165 m (east)
Rear: 32 m (north)	Left side property line: 101 m (west)
GPS coordinates of single largest vessel: Lat. 43.2297, Long. -79.9461	

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) Neil Mcleod	Official Title Warehouse Manager
Signature 	Telephone No. 905-330-0306
	Date (dd-mm-yyyy) 12/10/2011



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SECTION C: SUBMISSIONS (cont'd)

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

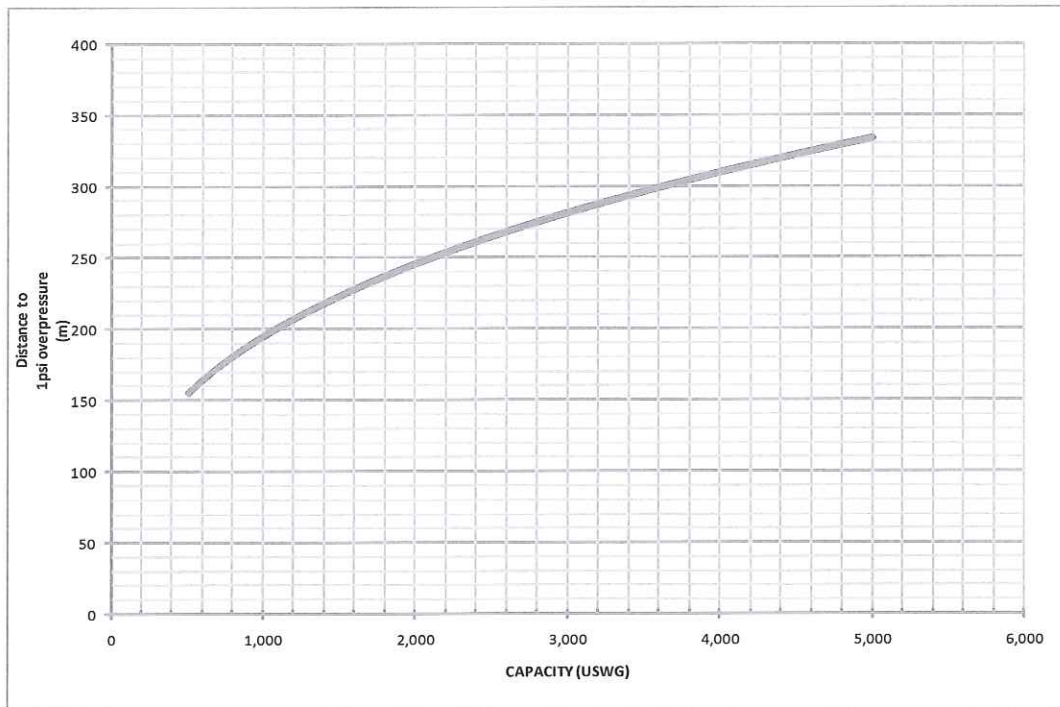
Table 1: Distance Table

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)



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) Nothing completed on this page.		Official Title	
Signature		Telephone No.	Date (dd-mm-yyyy)



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Level 1 Risk and Safety Management Plan (RSMP)
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SECTION C: SUBMISSIONS (cont'd)

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

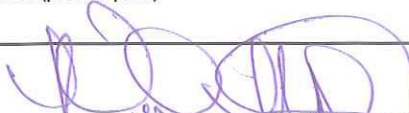
As an accompaniment to the Map of Surrounding Area, provide the following information about buildings and features present within the circle in Table 2.

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+	
<input type="checkbox"/> Industrial buildings or parts of office courses Name: <u>None</u> Address: _____ City: _____ Province _____ Postal Code _____	X				<u>0</u> m
<input type="checkbox"/> Residential buildings units specifically permanent single family dwellings, condominiums, and apartments Name: _____ Address: _____ City: _____ Province _____ Postal Code _____			X		<u>250</u> m
<input type="checkbox"/> Commercial buildings units specifically retail, restaurants, entertainment, theatres, and sporting complexes Name: <u>Various retail including Sears, Home Depot and Winners.</u> Address: _____ City: _____ Province _____ Postal Code _____			X		<u>156</u> m
<input type="checkbox"/> Commercial buildings units or contiguous occupancies specifically hotels, campgrounds, and resorts Name: <u>None</u> Address: _____ City: _____ Province _____ Postal Code _____	X				<u>0</u> m
<input type="checkbox"/> 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
<input type="checkbox"/> 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) <u>Neil Mcleod</u>	Official Title <u>Warehouse Manager</u>	
Signature 	Telephone No. <u>905-330-0306</u>	Date (dd-mm-yyyy) <u>12/10/2011</u>



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SECTION C: SUBMISSIONS (cont'd)

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

Portable Storage Additional Information Sheet

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		
# 20	5.8	72	418 USWG
# 10	2.9		
# 5	1.5		
Total Cylinder Capacity 418 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		

Total Cylinder Capacity	418 USWG
Total Tank Capacity	2000 USWG
Total Portable Capacity	418 USWG

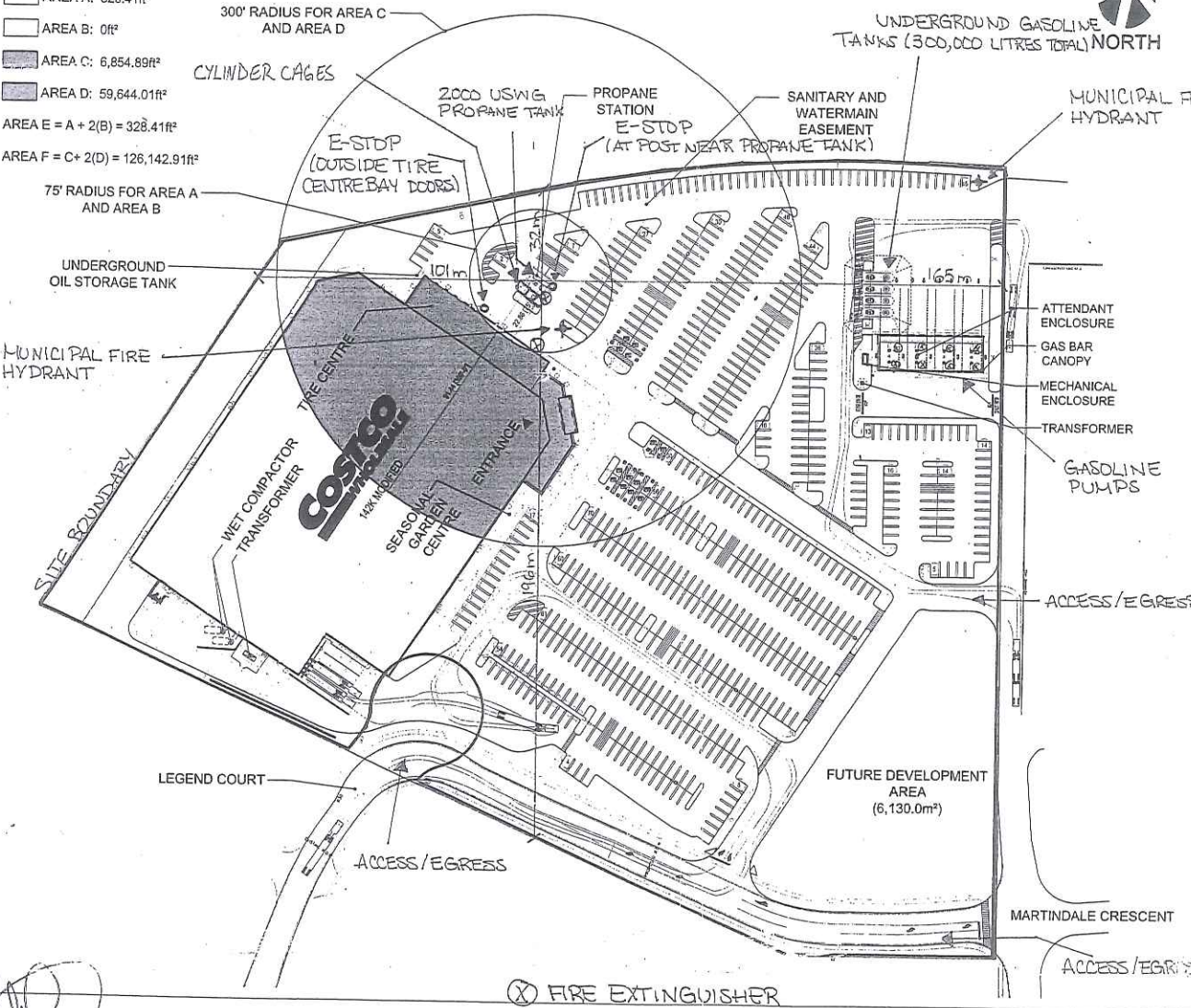
Declaration: I am aware that it is an offence to give false information in this document and I hereby declare that the information I have given here is true and complete.

Name of person completing this form (please print) Neil Mcleod	Official Title Warehouse Manager
Signature 	Telephone No. 905-330-0306
	Date (dd-mm-yyyy) 12/10/2011

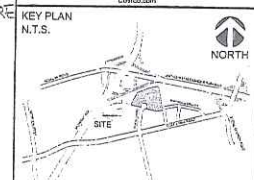
LEGEND

- AREA A: 328.41ft²
- AREA B: 0ft²
- AREA C: 6,854.89ft²
- AREA D: 59,644.01ft²
- AREA E = A + 2(B) = 328.41ft²
- AREA F = C + 2(D) = 126,142.91ft²
- 75' RADIUS FOR AREA A AND AREA B

SITE PLAN: COSTCO - ANCASTER (ON) STORE
 100 LEGEND COURT, ANCASTER ON L9K 1J3



COSTCO WHOLESALE CORPORATION
 888 LAKE DRIVE
 ISAACIUM, ON, M8E2T
 T: 416.215.8100
 COSTCO.CA



PROJECT DATA
 PROJECT ADDRESS: 100 LEGEND COURT, ANCASTER, ONTARIO
 EXISTING SITE AREA: 67,987.2m² (16,933,841 / 731,800ft²) (16.60 ac)
 PROPOSED COSTCO SITE AREA: 64,574.1m² (16,466,117 / 731,800ft²) (15.88 ac)
 ZONING: PRESEIGE INDUSTRIAL "M2" AND "M42" WITH SPECIAL PROVISION "M2-403 AND M42-403"
 JURISDICTION: CITY OF HAMILTON
 BOUNDARY INFORMATION: THIS DRAWING IS BASED ON AN E.P.F.E. FROM MMH GEOMATICS LIMITED, ONTARIO LAND SURVEYORS, DATED SEPTEMBER 2, 2010

EXISTING BUILDING DATA	AREA
BUILDING AREA	10,058.5m ² (108,807)
PROPOSED BUILDING DATA	AREA
BUILDING AREA (INCLUDES VESTIBULE AREA)	13,912.1m ² (149,897)
FLOOR COVERING	932.6m ² (10,047)
TOTAL BUILDING GROSS FLOOR AREA	13,984.7m ² (150,944)
GAS BAR MECHANICAL ENCLOSURE	1.2m ² (13)
DISBURSEMENT ENCLOSURE	1.0m ² (11)
EXISTING SITE DATA	AREA
LOT COVERAGE	14.5%
LANDSCAPED OPEN SPACE	16.7%
PAVED PARKING AREA	41.3%
PROPOSED SITE DATA	AREA
LOT COVERAGE	15.4%
LANDSCAPED OPEN SPACE	16.2%
PAVED PARKING AREA	68.4%
FUTURE DEVELOPMENT AREA	6.1%
EXISTING PARKING DATA	PARKING SPACES
NUMBER OF PARKING SPACES PROVIDED (SEE NOTES)	816
NUMBER OF ACCESSIBLE PARKING SPACES PROVIDED (SEE 10.10)	14
TOTAL GROSS PARKING SPACES PROVIDED	830
NO. OF STALLS PROVIDED PER 1000 OF GROSS BUILDING AREA	5.94
PROPOSED PARKING DATA	PARKING SPACES
TOTAL PARKING REQUIRED UNDER CURRENT ZONING	816
NUMBER OF PARKING SPACES PROVIDED (SEE NOTES)	816
NUMBER OF ACCESSIBLE PARKING SPACES PROVIDED (SEE 10.10)	14
TOTAL GROSS PARKING SPACES PROVIDED	830
NO. OF STALLS PROVIDED PER 1000 OF GROSS BUILDING AREA WITHOUT SETBACK AREA	6.21
NO. OF STALLS PROVIDED PER 1000 OF GROSS BUILDING AREA WITHOUT SETBACK AREA, NUMBER OF GROSS SPACES	4.58

NO.	REVISIONS	BY	DATE	APPR.
5	FINAL SITE PLAN	CJM	MAY 2011	DSB
4	SUBMITTED FOR MAJOR VARIANCE	CJM	FEB. 10/11	DSB
3	REMOVED FOR SITE PLAN APPROVAL	CJM	JAN. 26/10	DSB
2	REMOVED FOR SITE PLAN APPROVAL	CJM	DEC. 22/10	DSB
1	SUBMITTED FOR SITE PLAN APPROVAL	CJM	OCT. 7/10	DSB

DESIGNED FOR APPROVAL, NOT FOR CONSTRUCTION
 ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED

SHEET TITLE: PROPANE BRANCH STANDARD NO. 9 EXHIBIT

CONSULTANT: **MMM GROUP**

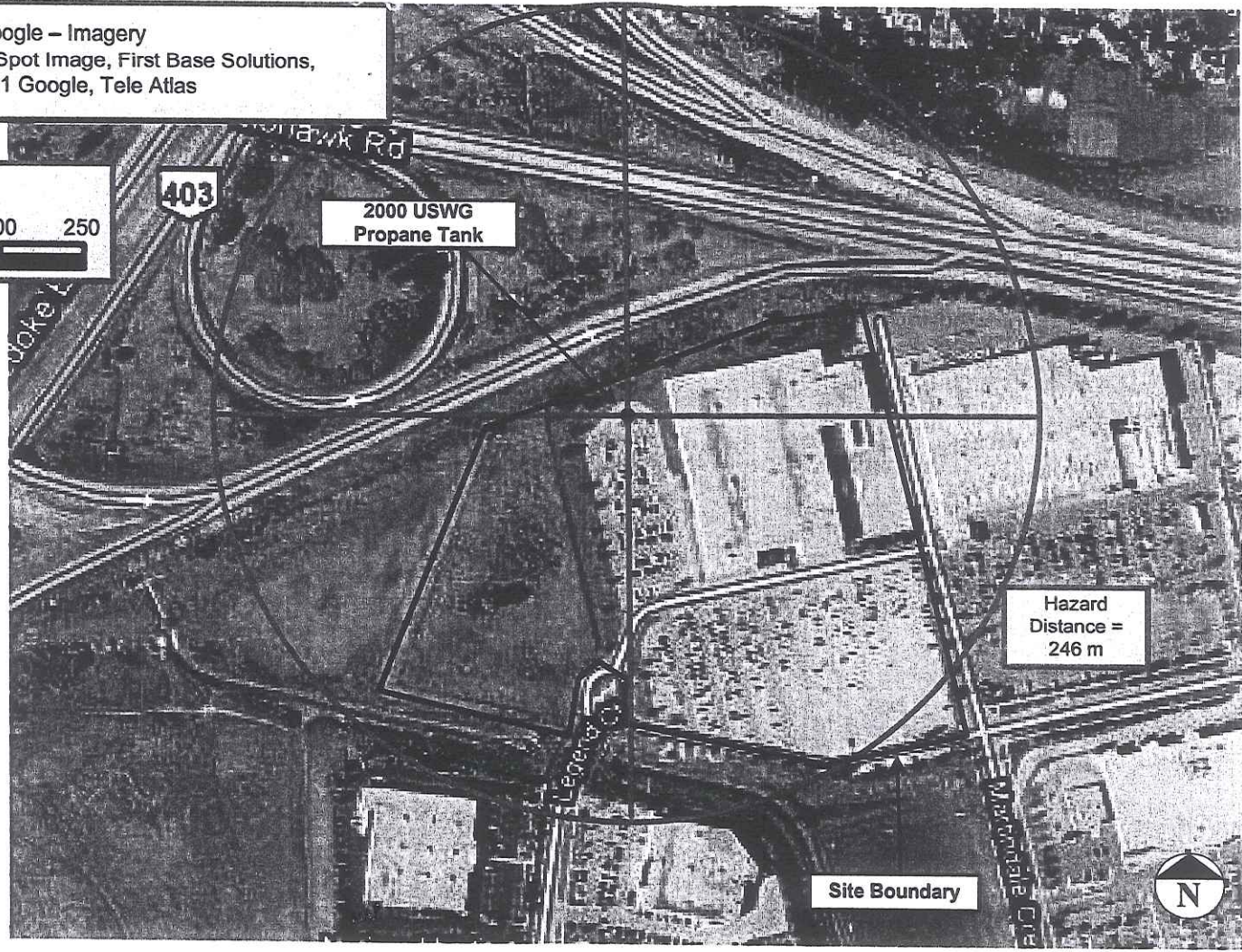
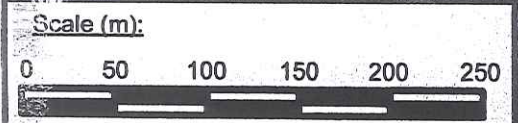
DESIGNED: CJM/DSB
 DRAWN: DSJ
 CHECKED: DSJ

SCALE: 1:1604
 DATE: MAY 20, 2011

PROJECT NUMBER: 10.05087.020.P20
 DWG NUMBER: SP-3

Neil McLeod
 NEIL MCLEOD

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 Map data ©2011 Google, Tele Atlas



Street Distances (to City Boundary)	North : 32 m South: 196 m	East: 165 m West: 101 m
Capacity of Propane Storage Tank	Capacity of Propane Storage Tank = 2000 USWG	
GPS Co-ordinates of Propane Storage Tank	GPS Co-ordinates = 43.2297, -79.9461	
Circle of Distance to 7 psi overpressure	Denoted by circle centred on tank; radial distance = 246 m	

Municipality (ies) within the 7 psi overpressure circle	City of Hamilton
Municipal Contact	Rose Caterini City Clerk, City of Hamilton 71 Main Street West, 1 st Floor, Hamilton, ON, L8P 4Y5 Tel: 905-546-2489 Fax: 905-546-2095 email: clerk@hamilton.ca

Map of Surrounding Area	
Costco 100 Legend Court, Ancaster, ON, L9K 1J3 Part of Lot 50, Part of Block 17, Registered Plan 62M-606, Part of Lot 2, Registered Plan 62M-697, Town of Ancaster, Regional Municipality of Hamilton Wentworth	
Drawn by: L. Oliverio	Date: May 25, 2011