



Technical Standards and Safety Authority
www.tssa.org

14th Floor - Centre Tower
3300 Bloor Street West
Toronto Ontario M8X 2X4
Fax: 416.231.4078
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.

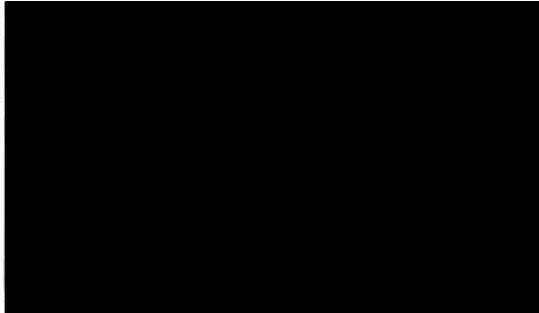
**Failure to fully complete this form may result in rejection.
Making a false statement may result in a fine or prosecution
under the *Technical Standards and Safety Act***

Licence Number

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 Corporation No.

Operator Name (if different from above)

Telephone No. Fax No. E-mail

B Street No. Street Name / 911 Number / Address, if applicable

Town / City or Township / County Province Postal Code

C Mailing address if different from above.

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

D Location of facility.

Street No. Street Name / 911 Number / Address, if applicable Nearest Major Intersection

Town / City or Township / County Province Postal Code

Name of Licence Holder

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

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

Hours of operation.



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SECTION A: GENERAL INFORMATION (cont'd)

Indicate the year the facility was established. 2016 (New Site) Indicate the year of any significant modifications, as defined in s.1, O.Reg 211/01, since establishment. There are no significant modifications to the site.


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

	PSIG	Serial Number
Tank 1:	<u>250</u>	<u>7169</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: 1996 USWG Portable: 216.2 USWG Mobile: 0 USWG

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Name of person completing this form (please print) <u>Scott Arthurs</u>	Official Title <u>Signing Officer</u>	
Signature 	Telephone No. <u>519-928-3370</u>	Date (dd-mmm-yyyy) <u>10-01-2017</u>



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

Name of Propane Supplier(s) Primemax Energy Inc.		For Office Use - Party No.	
Street No. 2558	Street Name / 911 Number / Address, if applicable Cedar Creek Road, R.R. #1		
Town / City or Township / Country Ayr		Province Ontario	Postal Code N0B 1E0
Telephone No. 519-740-8209	Fax No. 519-740-1015	Contact Name Mike Taylor	
E-mail primemax@primemaxenergy.com			

Name of Propane Transporter. If same as above, please check box. <input type="checkbox"/>		For Office Use - Party No.	
Arthurs Fuel			
Street No. 202350	Street Name / 911 Number / Address, if applicable County Road 109		
Town / City or Township / Country East Garafraxa		Province Ontario	Postal Code L9W 7N1
Telephone No. 519.941.0004	Fax No. 519.928.1100	Contact Name Brian Arthurs	
E-mail brian@arthursfuel.com			

Off-site Cylinder and/or Mobile Storage N/A	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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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.

Facility is an operating Hardware Store. There are no major hazardous outside of the adjacent Arthurs Fuel petroleum and propane bulk plant.

The Arthurs Fuels has a number of aboveground fuel tanks and transport vehicles on their site but these are secured from the Hardware store.

There is a small cylinder cage for empty propane cylinders near the main Hardware store entrance.

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

The facility is equipped with fire extinguishers. They are located at the propane storage area and throughout the Hardware store.

There is a remote Emergency Shut down (ESD) located on one of the concrete posts near the tank. The ESD kills power to the propane and stops the motor and closes the fuel supply solenoid valve to prevent product flow. The site has security cameras that are monitored 24/7.

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.


The propane tank is equipped with a fusible link connected to a chain that will melt at 212 degrees F which will break the chain and the spring loaded ISC valve will close automatically shutting off the propane suction to the pump. There is an Emergency Shut Down (ESD) located on one of the concrete posts near the propane tank. The ESD kills power to the propane and stops the motor and closes the fuel supply solenoid valve to prevent product flow.

There is an alarm systems on site. The site is monitored by security cameras 24/7.

Maintenance and testing schedule for fire protection controls and devices.

The fire extinguishers are checked monthly and retested annually for proper operation. The propane equipment and ESD is inspected annually by a TSSA registered contractor. Copies of Inspection reports are kept on site.

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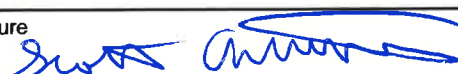
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SECTION B: EMERGENCY AND PREPAREDNESS RESPONSE PLAN (cont'd)

1. Contacts for Emergency Response

1. Facility Contact Personnel - Key Contact		5. Facility 24-Hour Contact Person	
Name <u>Scott Arthurs</u>	For Office Use - Party No.	Name <u>Scott Arthurs</u>	For Office Use - Party No.
Official Title <u>Signing Officer</u>		Official Title <u>Signing Officer</u>	
Telephone No. <u>519-928-3370</u>	Fax No. <u>519-928-2660</u>	Cell No. <u>519-939-0750</u>	Fax No. <u>519-928-2660</u>
E-mail <u>scott@arthursfuel.com</u>		E-mail <u>scott@arthursfuel.com</u>	
Role and responsibilities in emergency <u>Will ensure all employees are trained to work with propane and enforces the site safety plan in response to emergencies. Will make 911 Call.</u>		Role and responsibilities in emergency <u>Same as Item 1</u>	
2. Facility Contact Personnel - Alternate Contact		6. Name of Facility Manager	
Name <u>Barry Vink</u>	For Office Use - Party No.	Name <u>Barry Vink</u>	For Office Use - Party No.
Official Title <u>Manager</u>		Official Title <u>Manager</u>	
Telephone No. <u>519-928-3370</u>	Fax No. <u>519-928-2660</u>	Telephone No. <u>519-928-3370</u>	Fax No. <u>519-928-2660</u>
E-mail <u>barry.vink@homehardware.ca</u>		E-mail <u>barry.vink@homehardware.ca</u>	
Role and responsibilities in emergency <u>Will assist the key contact in emergencies and will assume responsibility for site liason if key contact is away from site. Will make 911 call.</u>		Role and responsibilities in emergency <u>Same as Item 2</u>	
3. Local Fire Services - Key Contact		7. Propane Supplier Key Contact Person	
Name <u>Kevin McNeilly</u>	For Office Use - Party No.	Name <u>Brian Arthurs</u>	For Office Use - Party No.
Official Title <u>Fire Chief</u>	E-mail <u>kmcneilly@gvdfd.com</u>	Official Title <u>Owner</u>	E-mail <u>brian@arthursfuel.com</u>
Telephone No. <u>519-928-3460</u>	Fax No. <u>N/A</u>	Telephone No. <u>519-941-0004</u>	Fax No. <u>519.928.1100</u>
Role and responsibilities in emergency <u>Coordinates all fire services for the Grand Valley & District Fire Services and assigns the required resources during emergencies.</u>		Role and responsibilities in emergency <u>Coordinates truck deliveries and would initiate the CPA Emergency Response Plan as required.</u>	
Fire Services Address <u>173145 County Rd., 25, Grand Valley, P.O. Box 83, ON. L9W 6W9</u>		Propane Supplier Address <u>202350 County Road 109, East Garafraxa, ON. L9W 3L2</u>	
4. Local Fire Services - Alternate Contact		8. Municipal Contact	
Name <u>David Stevenson</u>	For Office Use - Party No.	Name <u>Susan M. Stone</u>	For Office Use - Party No.
Official Title <u>Deputy Fire Chief</u>	E-mail <u>dstevenson@gvdfd.com</u>	Official Title <u>CAO/Clerk-Treasurer</u>	
Telephone No. <u>519-928-3460</u>	Fax No. <u>N/A</u>	Telephone No. <u>519-928-5298</u>	Fax No. <u>519-941-1802</u>
Role and responsibilities in emergency <u>Will assist with coordination of Fire Services resources.</u>		E-mail <u>suestone@amaranth-eastgary.ca</u>	
Fire Services Address <u>173145 County Rd., 25, P.O. Box 83, Grand Valley, ON. L9W 6W9</u>		Municipality Name and Address <u>Township of East Garafraxa, 191282 13th Line, East Garafraxa, ON. L9W 7A7</u>	

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	Date (dd-mmm-yyyy) <u>10-01-2017</u>



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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 Response Assistance Plan-available by contacting supplier.

The facility is built to the propane code requirements and does not have any extra features that are over and above the code. The tank is protected with concrete filled posts on three sides and concrete blocks on one side. Tank area has an Emergency shutdown button that will kill power to the pump and solenoid valve when pushed. Tank is in constant site of employees on the premises. Fire Equipment access is easy off of County Road 109 with a large area to manoeuvre trucks around. There are security cameras located on the property, monitored 24/7.

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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-mmm-yyyy) 15-10-2016	Print Name of Training Provider: Arthurs Fuel
	Print Name of Instructor: Brian Arthurs
Training Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:
Training Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:

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

Training Date (dd-mmm-yyyy) 15-10-2016	Print Name of Training Provider: Arthurs Fuel
	Print Name of Instructor: Brian Arthurs
Training Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:
Training Date (dd-mmm-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-mmm-yyyy) 15-12-2016	Print Name of Training Provider: Fire Training and Safety Network (FSN)
	Print Name of Instructor: Michael Farah
Training Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:
Training Date (dd-mmm-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-mmm-yyyy) 22-11-2017	Print Name of Training Provider: Grand Valley Home Hardware
	Print Name of Instructor: Scott Arthurs
Target Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:
Target Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:


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

Target Date (dd-mmm-yyyy) 22-11-2017	Print Name of Training Provider: Grand Valley Home Hardware
	Print Name of Instructor: Scott Arthurs
Target Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:
Target Date (dd-mmm-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-mmm-yyyy) 15-12-2019	Print Name of Training Provider: Fire Training Network
	Print Name of Instructor: Michael Farah
Target Date (dd-mmm-yyyy)	Print Name of Training Provider:
	Print Name of Instructor:
Target Date (dd-mmm-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 who gives warnings to whom, and how and when the warning will be given (including public notification as appropriate).
The attendant on site will notify the patrons at the propane facility that a problem has occurred after pressing the ESD switch and closing the ISC valve. The patrons will be asked to leave the site and the attendant will proceed to make a 9-1-1 call and request fire and police response.

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).
After a warning is issued the attendant will block off the entrance/exits to the site. Once the area is free of customers the staff will meet at the "Muster Point" (See Drawing P-101) and await the arrival of 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).
Once an emergency situation is confirmed at the propane facility, the attendant will call 911 to ask for Fire and Police response. The attendant always carries a cell phone and also has access to a phone inside the hardware store. A call will be made at any two of the business locations on site. (Arthurs Fuel)

Describe provisions for fire department entry when there are no operations or staffing at the propane site.
The site is not fenced so access to the site is always available to Emergency Responders from County Road 109. The tank is located in the middle of the property. There are no fire hydrants located near the property but the Township has access to year round water supply from other sources near by.
There are no barriers to the site or tank.

Describe how the licence holder will ensure continual flow of updated information to authorities.
The attendant will always be on site during normal operating hours.. When Emergency Responders come to the site the attendant will identify themselves as the person who is responsible for the propane and will communicate directly with the Emergency Responders.

How long will it take the facility liaison person to respond to the site.
20-30 Minutes for the owner if not already on site.

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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 type="checkbox"/>	<input checked="" 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>500 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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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
<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

Fire services comments, if any:

No comments for

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-mmm-yyyy)

LOCAL FIRE SERVICES

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

Print name	Signature	Date (dd-mmm-yyyy)
Local Fire Services Name Kevin McNeilly- Fire Chief		20-01-2017

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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-mmm-yyyy) <u>03-01-2017</u>	Capacity of single largest propane storage vessel (USWG) <u>1996 USWG</u>
Tank setback coordinates. Indicate placement on the map.	
Front: <u>46.9 m</u>	Right side property line: <u>47.6 m</u>
Rear: <u>101.2 m</u>	Left side property line: <u>165.4 m</u>
GPS coordinates of single largest vessel: <u>Long43°52'24.77"NLat80°18'44.07"W</u>	

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SECTION C: SUBMISSIONS (cont'd)

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

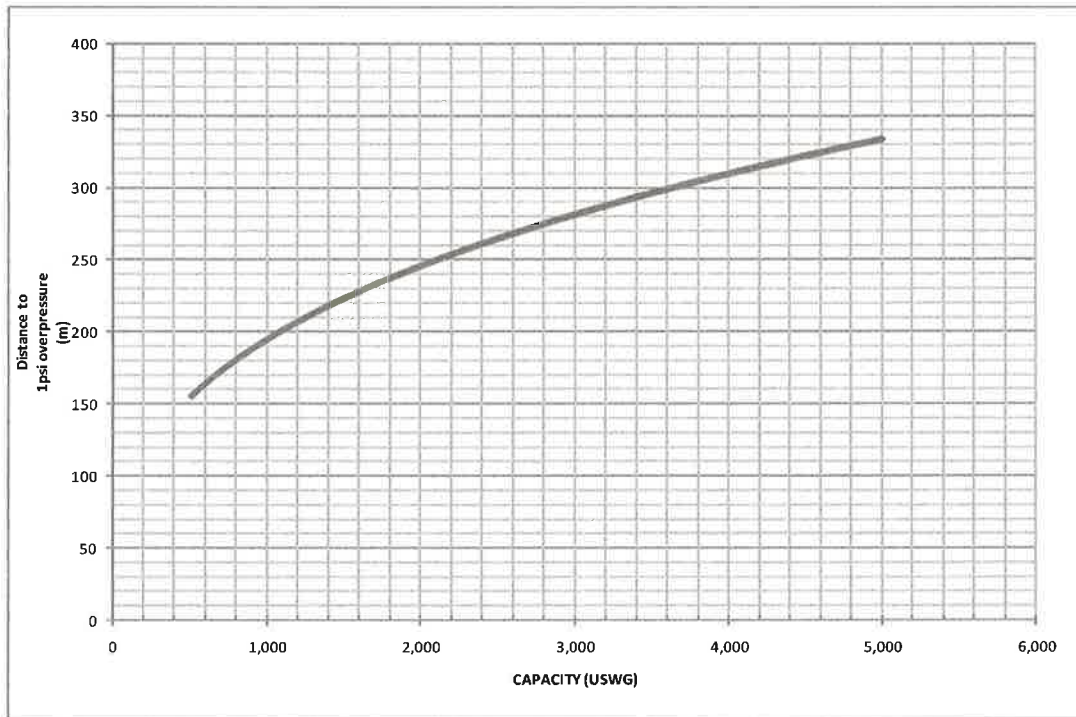
Table 1: Distance Table

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)





Technical Standards and Safety Authority
www.tssa.org

14th Floor - Centre Tower
3300 Bloor Street West
Toronto Ontario M8X 2X4
Fax: 416.231.4078
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

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: _____ Address: _____ City: _____ Province _____ Postal Code _____	X				_____ m
Residential building units specifically permanent single family dwellings, condominiums, and apartments. [Redacted]			X		218 m
Commercial building units specifically retail, restaurants, entertainment, theatres, and sporting complexes. Name: <u>Kelly's Korner Restaurant</u> Address: <u>202378 County Road 109</u> City: <u>Grand Valley</u> Province <u>Ontario</u> Postal Code <u>L9W 7M1</u>		X			201.5 m
Commercial building units – continuous occupancy specifically hotels, campgrounds, and resorts. Name: _____ Address: _____ City: _____ Province _____ Postal Code _____	X				_____ m
Sensitive institutions specifically hospitals, schools and day cares, nursing and retirement homes, mental health institutions, and prisons. Name: _____ Address: _____ City: _____ Province _____ Postal Code _____	X				_____ m
Emergency responders specifically fire stations, ambulance stations, and police stations. Name: _____ Address: _____ City: _____ Province _____ Postal Code _____	X				_____ 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>Scott Arthurs</u>	Official Title <u>Signing Officer</u>
Signature 	Telephone No. <u>519-928-3370</u> Date (dd-mmm-yyyy) <u>10-01-2017</u>



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WORKSHEET

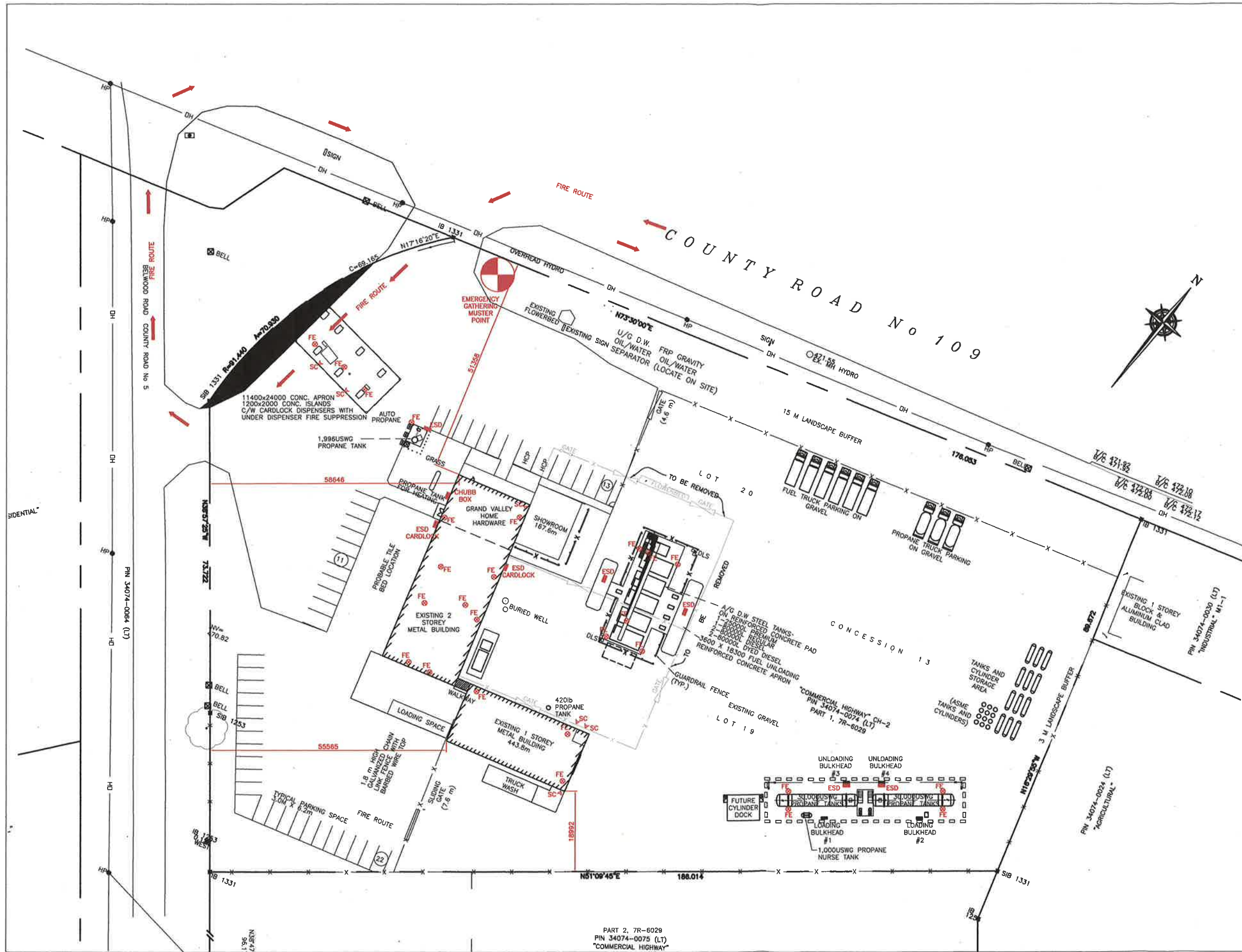
Portable Storage Additional Information Worksheet

Cylinder Size	Capacity in USWG	Quantity	Total Volume in USWG
# 420	123.9		
# 100	29.5	2	59 USWG
# 40	11.75		
# 33.3	9.62		
# 30	8.8	10	88 USWG
# 20	5.8	12	69.6 USWG
# 10	2.9		
# 5	1.5		
Total Cylinder Capacity			216.6 USWG

Tanks Stored On-site Not Connected for Use

Tank Size in USWG	Quantity	Total Volume in USWG
Total Tank Capacity		0 USWG

Total Cylinder Capacity	216.6 USWG
Total Tank Capacity	0 USWG
Total Portable Capacity (Total Cylinder Capacity + Total Tank Capacity)	216.6 USWG



KEY PLAN
SCALE: N.T.S.

ZONING INFORMATION:
 ZONING INFORMATION: HIGHWAY COMMERCIAL EXCEPTION 7 (CH-7)
 LOT AREA: 25,322.8sq.m.
 BUILDING AREA: 1,460.8sq.m.
 LOT COVERAGE OF BUILDING: 5.7%

PROPERTY LINE SETBACKS FOR PROPANE TANK	
NORTH	46.9m
SOUTH	101.2m
EAST	165.4m
WEST	47.6m

GPS COORDINATES	
LATITUDE	LONGITUDE
43°52'24.77"N	80°18'44.07"W

- LEGEND:**
- SC ▽ SECURITY CAMERA
 - FE ⊙ FIRE EXTINGUISHER
 - ESD ■ EMERGENCY SHUT-DOWN
 - ⊕ MUSTER POINT (OPTION BASED ON WIND DIRECTION)

No.	Date	Description	By
0	JUN. 22, '13	ISSUED FOR RSMF	JRC



ALTENG Inc.
 Alternative Energy Consulting
 126 Holm Crescent, Thornhill, Ontario L3T 5J3
 Telephone: (905)764-1544 Fax: (905)764-5986

Project: GRAND VALLEY HOME HARDWARE 202360 COUNTY ROAD 109 EAST GERRARD, ON	Drawn By: D.F. Checked By: J.R.K. Date: JAN 04, 2017
--	--

Drawing Title: PROPOSED EMERGENCY PLAN FOR 1996 USWG PROPANE TANK c/w CYLINDER SCALE AND AUTO DISPENSER	Drawing Scale: 1:400
Drawing Number: P-101	File Number: 16270D
	ACAD INFORMATION Drawing File: 16270D-P-101 Drawing Size: D Plotting Scale: 1=1

PART 2, 7R-6029
 PIN 34074-0075 (LT)
 "COMMERCIAL HIGHWAY"



KEY PLAN
SCALE: N.T.S.

NOTES:

CONSEQUENCE DISTANCE TO AN OVERPRESSURE LEVEL OF 1 psf BASED ON TNT-EQUIVALENCY METHOD, AS PER T.S.S.A. GUIDELINES FOR THE IMPLEMENTATION OF THE RISK AND SAFETY MANAGEMENT PLAN

$$D = 17 \times \left(0.1 \times W_p \times \frac{HC_i}{HC_{TNT}} \right)^{1/3} = 246m$$

PROPERTY LINE SETBACKS FOR PROPANE TANK	
NORTH	46.9m
SOUTH	101.2m
EAST	165.4m
WEST	47.6m

GPS COORDINATES	
LATITUDE	LONGITUDE
43°52'24.77"N	80°18'44.07"W

AS PER TSSA GUIDELINES FOR THE IMPLEMENTATION OF THE RISK AND SAFETY MANAGEMENT PLAN, THIS FACILITY ONLY REQUIRES A LEVEL 1 RSMP SUBMISSION.

PLANNING ADVISORY INFORMATION:

TOWNSHIP OF EAST GARAFRAXA
191282 13th LINE
EAST GARAFRAXA, ON.
L9W 7A7

ATTN: MS. SUSAN M. STONE, CAO/CLERK-TREASURER
PH#: 519.928.5298
FAX#: 519.941.1802
EMAIL: suestone@amaranth-eastgary.ca

TOWNSHIP OF EAST LUTHER GRAND VALLEY
5 MAIN STREET N., P.O. BOX 249
GRAND VALLEY, ON.
L9W 7N1

ATTN: MS. TRACY ATKINSON, PLANNER
PH#: 519.928.5652
FAX#: 519.928.2275
EMAIL: tatkinson@townofgrandvalley.ca

No.	Date	Description	By
0	JAN. 04, '17	ISSUED FOR RSMP	JRK

REVISIONS



ALTENG Inc.
Alternative Energy Consulting
126 Halm Crescent, Thornhill, Ontario L3T 5J3
Telephone: (905)764-1644 Fax: (905)764-5986

Project: GRAND VALLEY HOME HARDWARE 202380 COUNTY ROAD 109 EAST GARAFRAXA, ON.	Drawn By: D.F. Checked By: J.R.K. Date: JAN 04, 2017
Drawing Title: BLAST RADIUS LAYOUT FOR 1996 USWG PROPANE TANK c/w CYLINDER SCALE AND AUTO DISPENSER	Drawing Scale: 1:1000
Drawing Number: P-200	File Number: 16270D
	ACAD INFORMATION Drawing File: 16270D-P-200 Drawing Size: 0 Plotting Scale: 1=1