

Third Party Damage and Plant Protection – The Common Ground Alliance

Bryan Goulden, Union Gas Limited

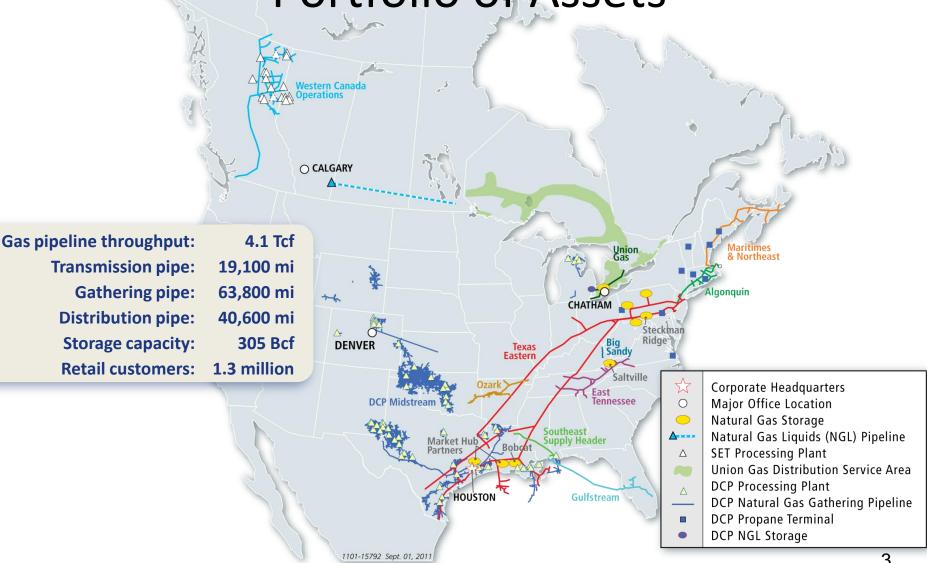


Agenda

- Plant Damage & Protection Overview
- Common Ground Alliance
- Responses:
 - 1. One Call
 - 2. Cross Bore Issue
 - 3. Other Distribution Best Practices



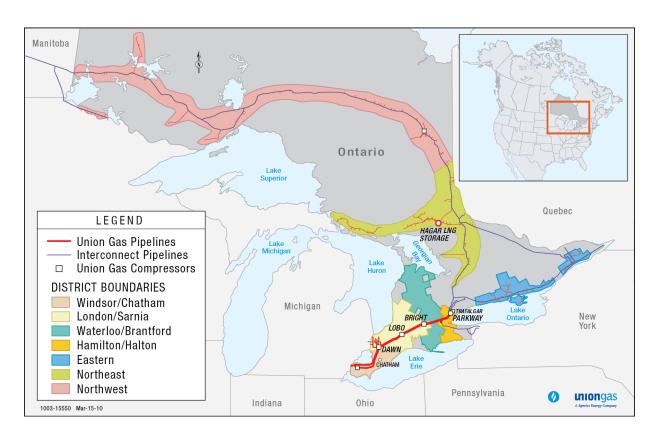
Spectra Energy Portfolio of Assets





Union Gas Limited Overview

- 100 years old!
- natural gas storage, transmission, and distribution company based in Ontario, Canada
- 2nd largest natural gas distributor in Canada (1.3 million customers)
- 400 communities served





Overview - Buried Treasures

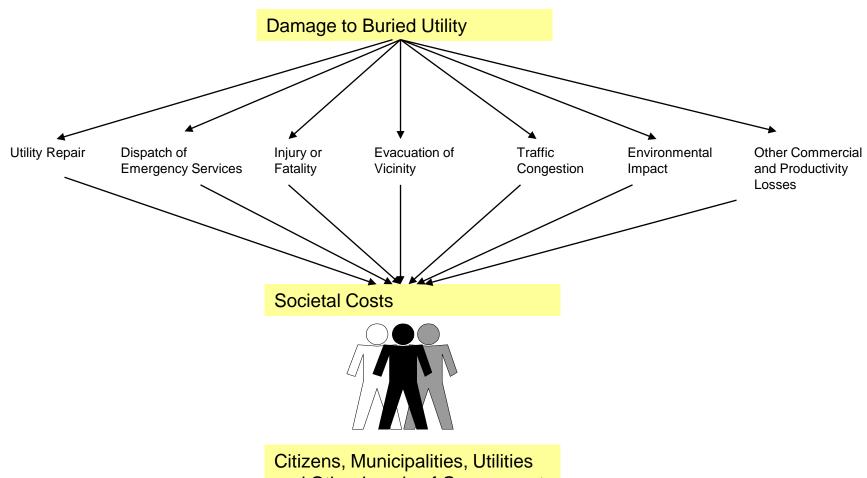


 Utility infrastructure is an investment exceeding \$100 billion supporting Ontario's economic prosperity



Plant Damages

Direct and Indirect Costs



and Other Levels of Government



Recent Plant Damage Incidents

- Gulf Coast BP Deepwater Horizon (Oil Production)
- Marshal, Michigan –Enbridge Line Break (Oil Pipeline)
- San Bruno, California PG&E (Gas transmission/ distribution)
- Allentown, Pennsylvania UGI Utilities (Gas Distribution)

FIGRE Common Ground Alliance - History

- Formed 2000, as a member driven organization
- Promotes reduction in damages to all underground facilities in North America through shared responsibility among all stakeholders
- Emphasis on "best practices" established by consensus support
- 180 member organizations and 1400 individual members



IGRE Common Ground Alliance - Membership

Stakeholders include:

- Excavators
- Locators
- Road builders
- Electric
- Telecommunications
- Oil
- Gas distribution/transmission

- Railroad
- One call
- Public works
- Equipment manufacturing
- Regulators
- Insurance
- **Emergency services**
- Engineering/ design



LIGRC Canadian Common Ground Alliance - History

- Canadian CGA was formed in 2006 to represent 5 Regional Partners with stand-alone organizations
- Manages damage prevention issues of national interest that can best address Regional Partner issues through a single voice



NIGRE Canadian Common Ground Alliance – Members

- 6 of Canada's 10 provinces accounting for 93% of Canada's population
 - British Columbia
 - Alberta
 - Saskatchewan
 - Manitoba
 - Ontario
 - Quebec



1. One Call – What is the issue?

- In Ontario, there are many underground utilities and "before you dig" locate requests can involve multiple parties (up to 13 separate phone calls)
- When underground utility lines such as gas, telephone, hydro or water are not located in advance of excavation they can be hit, causing serious damage and/or a public emergency
- A mandatory "One-Call" System will save municipalities, utilities, and excavators money while helping to protect the public they serve. A simplified and central contact point for all locate requests will increase:
 - Safety
 - Efficiency
 - Productivity



Complicated Locate Process



CITY OF OTTAWA

IN CASE OF EMERGENCY CALL 911

Seven working days before you dig, call your local utilities for a location of their service.

DAMAGE

1-800-887-1221

1-800-361-2727

electrical power
lines, cables,
conduit, street
lighting, traffic
signals

gas, oil, steam, condensate, chilled water, petroleum

potable water

sewers, drain

Communication, alarm / signal line cables, conduit

	57 (100 10 2	20071120	0211211312111440111120
Hydro One Distribution Hydro One Transmission Hydro Ottawa	1-888-664-9376 1-888-664-9376 613-738-0188	1-888-664-9376 Ontario One Call Ontario One Call	613-738-0188
City of Ottawa	311	311	311
PWGSC	1-800-463-1850	1-800-463-1850	
Enbridge Gas Distribution	1-866-763-5427	Ontario One Call	Ontario One Call
PWGSC	1-800-463-1850	1-800-463-1850	
Imperial Oil	1-519-339-2145	1-905-689-6462	
Petro Canada	613-229-2655	613-727-8056	
Trans Canada Pipeline	1-888-962-7222	Ontario One Call	
Trans Northern Pipeline	1-800-361-0608	Ontario One Call	
City of Ottawa Water	311	311	311
PWGSC	1-800-463-1850	1-800-463-1850	
City of Ottawa Sewers	311	311	311
PWGSC	1-800-463-1850	1-800-463-1850	
Allstream	1-800-837-6448	1-800-837-6448	1-800-837-6448
Atria	1-888-424 777 1	1-888-424 <i>777</i> 1	1-888-424-7771
Bell	Ontario One Call	Ontario One Call	611
City of Ottawa	311	311	311
Group Telecom	Ontario One Call	Ontario One Call	Ontario One Call
PWGSC	1-800-463-1850	1-800-463-1850	
House of Commons (HoC)	613-293-2537	613-293-2537	
Privy Council of Canada (PCO)	613-286-8369	613-286-8369	
Persona an Eastlink Company	1-866-737-7662	1-800-667-2864×2264	
P2P Fiber	1-877-727-3889	1-877-727-3889	1-877-727-3889
Rogers	1-866-246-6362	1-800-738-7893	1-800-738-7893



Ontario One Call 1-800-400-2255
CALL BEFORE YOU DIS

Telus

Videotron

*Don't forget to report damaged plant using the Damage Information Reporting Tool(DIRT) at Ontario One Call' * For City of Ottawa Tree & OC Transpo Issues Please Call 311*

LOCATES

GENERAL INQUIRIES

Ontario One Call

™ 311 is a local City of Cttawa number — forthose outside of Ottawa please dial 613-580-2400

Ontario One Call

Ontario One Call



One Call

- The U.S. Approach
 In the United States, participation in a "One-Call" System is mandatory
- Effective 2007, a single One Call phone number (811) has been used to request locates for utility lines, effective 2007
- Deterrent penalties differ across states. There appears to be a correlation between type of deterrent and compliance with One Call
- Results: Damages due to no locate in the United States have decreased from 225,000 in 2004 to 75,000 in 2008.



One Call Ontario Approach

- One call systems currently exist on a voluntary membership basis in 5 Canadian provinces. One call participation is not mandatory in any Canadian province
- Excavators are legally required by federal law (2004) to call before they dig
- In 2009, there were almost 3200 natural gas line breaks in Ontario, 1267 were at Union Gas.
- Forty percent (40%) of natural gas damages in Ontario are a result of no locate.
- Estimated damages due to no locates cost Ontario taxpayers \$33 million per year



IGRC What has Union Gas done?

- On1Call was established in 1996 by Union Gas, Bell Canada, and Enbridge Gas Distribution
 - Voluntary single-call service has grown to approximately 130 members represented by gas distribution/transmission, telecom, electric LDC, and municipalities.
- Union Gas was a founding member of the ORCGA which focuses on enhancing public safety and utility infrastructure reliability.
 - The ORCGA have been working on regulation in Ontario for a "One-Call" System and presented a draft to the Provincial Government in 2005.
- Over the past 18 months, the ORCGA and OOC have been supporting the Provincial Government on the "One-Call to Dig Project".
- Despite these gains, participation continues to be voluntary and not all underground asset owners are members.



Ontario One Call Next Steps

- Bill 180 "Ontario One Call Act" draft legislation introduced in Ontario Legislature in 2011. Not successfully passed into law
- Ontario One Call membership drive underway to increase voluntary membership; especially for municipalities
- Mandatory One Call system may be dependent on increase organizations voluntarily participating to a "critical mass".



Canadian Gas Association

Damage Prevention Task Force pursuing three key objectives:

- One Canada-wide locate number
- Single One-Call organization serving each province with mandatory participation by all
- Requirement to "Call Before You Dig" with strong enforcement for non-compliance



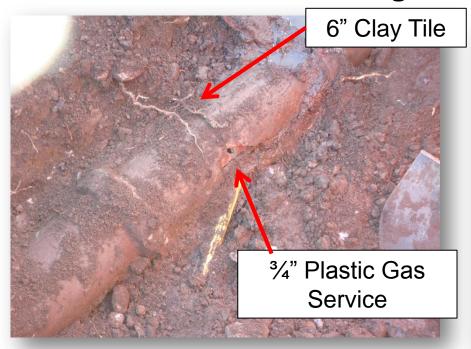
2. Utility Cross-Bore



Background: Utility Cross Bore

• A utility cross bore is an unintended intersection of an existing underground utility by a second utility, that can occur during construction that uses trenchless technologies.









Sewer Cross Bore Incidents





Utility Cross Bore Safety Program

Sewer Safety Inspection (SSI) Program

Locate sewer and gas lines (LSP)

• Response due to sewer blockage (emergency)

Sewer Safety Investigation Program

- Camera sewer line (VIP)
 - Emergency response from sewer locate
 - Planned investigation of sewers from historical data

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New Installation Program

 Process and procedures to be used to ensure that new cross bores are not created when using trenchless technology

Education and Awareness Program

- Municipalities
- Industry (plumbers, sewer companies, rental companies etc)
- Public (homeowners, businesses, institutions etc)



Sewer Safety Inspection Process

Home Owner / Plumber

- Report Sewer Blockage
- Interact with Representative

Ontario One Call

 Dispatch Locate Service Provider (LSP)

Locate Service Provider (LSP)

- Locate:
 - Sewer Lines
 - Gas Lines
 - Other Utilities if required

Video Inspection Provider (VIP)

- Video Inspect Sewer Line
- Identify Cause of Blockage

Union Gas Limited

- Excavate Site
- Identify Sewer Cross Bore
- Repair & Remediate Sewer Cross Bore





Union Gas Cross Bore Program Highlights

- Alignment with other major gas utility
- TSSA requirement as of January 2012
- Opportunities for synergies between current Locate and new Cross Bore program
- Supports ON1Call Strategy
- Stakeholder acceptance is a challenge communication underway



3. Other Distribution Best Practices