



Damage Prevention



Saskatchewan Common Ground Alliance

SCGA



**Saskatchewan Public Works Association
Wednesday, February 24, 2016**





Saskatchewan Common Ground Alliance

- The Saskatchewan Common Ground Alliance is a member driven, non-profit organization dedicated to ensuring worker and public safety, environmental protection and the integrity of services.
- Started in Saskatchewan in 2007. Currently 68 Members with 6 Sponsors. Stakeholders interested in reducing damage to underground infrastructure and safe ground disturbance.
- Regional Common Ground Alliances in British Columbia, Alberta, Manitoba, Ontario, Quebec and Atlantic Canada.
- National organization for Canada (CCGA) as well as United States (CGA).





Saskatchewan Common Ground Alliance

- Stakeholder Group

- ✓ Underground facility owners

Alliance Pipeline	SaskEnergy
Cenovus Energy	SaskPower
Crescent Point Energy	SaskTel
Enbridge Pipelines Inc.	Souris Valley Pipeline Ltd.
Enbridge Sask	Spectra Energy
Kinder Morgan Cochin	TransCanada Pipelines
Plains Midstream Canada	TransGas

- ✓ Municipalities

City of Regina
City of Swift Current
Rural Municipality of Lomond #37
Saskatchewan Association of Rural Municipalities



Saskatchewan Common Ground Alliance

- Stakeholder Group

- ✓ Construction/excavation

Acme Environmental Services Inc.

AECOM

AGRA Foundations

Arnett & Burgess Oilfield Construction Ltd.

ASL Paving Ltd.

ATI Telecom International Co.

Badger Daylighting

Central Line Contractors Association

Dagg Construction Ltd.

Future Fence Ltd

Hundseth Powerline Construction

Klarks Trenching Ltd.

K-Line Maintenance & Construction

Maxim Energy Corporation

Ministry Of Highways and Infrastructure -- Saskatchewan

Morsky Industrial Services Ltd.

Prairie Pump Service

Regina & Region Home Builders' Association

Saskatchewan Heavy Construction Association

Shermco

Wappel Construction Co. Ltd.



Saskatchewan Common Ground Alliance

- Stakeholder Group

- ✓ Safety organizations/ training

- Armour Safety Inc.

- Astec Safety Inc.

- Buffalo Safety Services

- DAXX Safety Group

- Enform Saskatchewan

- Global Training Centre

- Heavy Construction Safety Association of Sask.

- Saskatchewan Construction Safety Association

- ✓ Line locators

- Absolute Locating

- Alberta Hot Line

- Colt Electric Ltd.

- Find It Locators Ltd.

- GDS Line Locating Ltd.

- TSM Contractors Ltd.

- X-Calibur Ground Disturbance Solutions

- Canadian Association of Pipeline Utility Locating Contractors (CAPULC)



Saskatchewan Common Ground Alliance

- Stakeholder Group

- ✓ Survey/engineering companies

- 20/20 Geomatics Ltd

- Caltech Surveys Ltd.

- Meridian Surveys Ltd

- Worley Parsons Canada Services

- ✓ Regulators

- Ministry of Corrections, Public Safety and Policing

- National Energy Board

- WorkSafe Saskatchewan

- ✓ Service/equipment suppliers

- Brandt Tractor Limited

- Kavet

- Linestar Utility Supply

- Quality Control Assurance LTD

- Sask 1st Call

- Vertex Professional Services Ltd

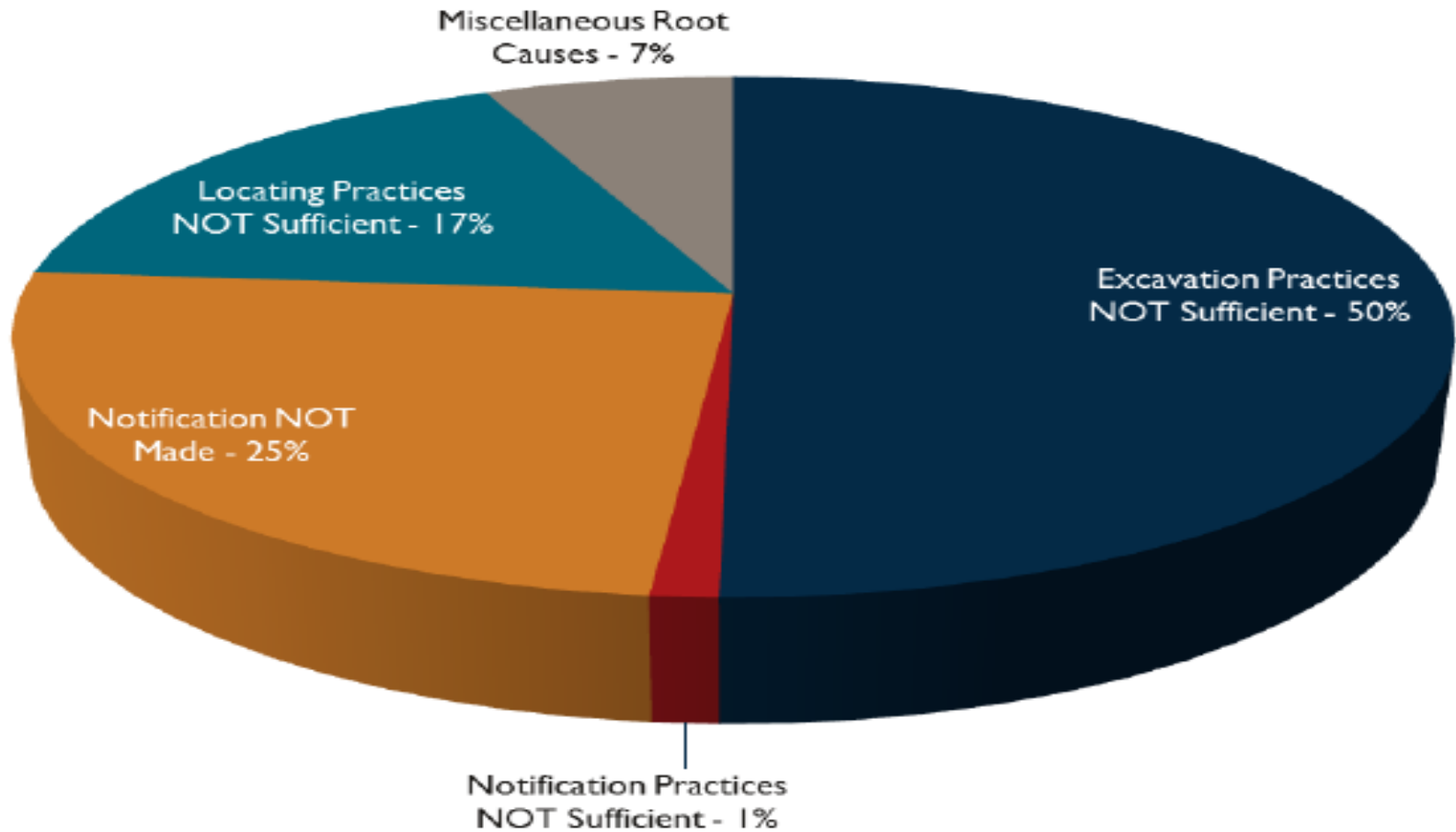
Incidents with underground infrastructure

- About 800 - 1000 per year that are reported from utility crowns
- Considerable buried infrastructure in Saskatchewan
- Strong economy with lots of development/ground disturbance
- Potential for public safety and environmental incidents



Root Cause of Incidents

2014 CGA DIRT



SCGA – Business Initiatives

Three main initiatives:

1. Public Awareness and Education
2. Best Practices for damage/loss prevention
3. Mandatory One Call



SCGA – Business Initiatives

- Continued improvement to a set of National Best Practices for underground infrastructure damage prevention
- SCGA Best Practice Committee works with national organization



- 1.0 Planning and Design
- 2.0 One Call Centre
- 3.0 Locating & Marking
- 4.0 Excavation
- 5.0 Mapping
- 6.0 Compliance
- 7.0 Public Education
- 8.0 Reporting & Evaluation

SCGA – Business Initiatives

- Increase Public Awareness and Education about Damage and Loss Prevention in the Digging Process
 - ✓ Coordinate April as Safe Digging Month
 - ✓ Annual Contractor Safety Breakfasts
 - ✓ Forums to discuss Best Practices



SCGA – Business Initiatives

You are invited to this year's Contractor Safety Breakfasts that will kick off **April as Safe Digging Month** in Saskatchewan!



To find out when, and where they are in your part of Saskatchewan got to www.scga.ca and register.



SCGA – Business Initiatives

- Task Force to look at establishing Mandatory One Call Legislation in Saskatchewan

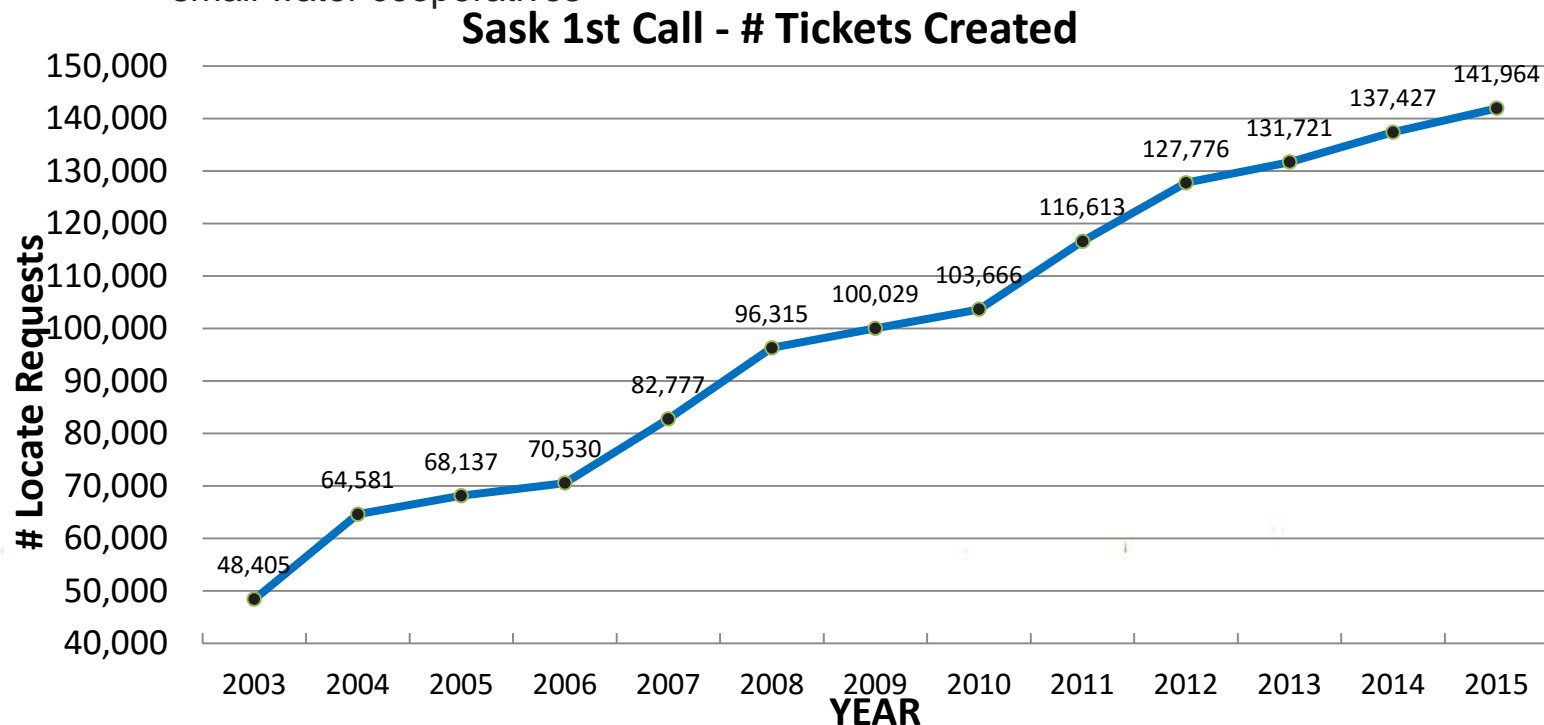


The SCGA and its membership have developed a “White Paper” on our position. It is available on our website.

www.scga.ca

Sask 1st Call

- Started in 2003, Voluntary membership representing 70 companies and thousands of km of underground infrastructure
- Members include:
 - ✓ power, telephone and gas transmission / distribution
 - ✓ field oil and gas gathering facilities
 - ✓ small water cooperatives





Challenge in Saskatchewan

- Sask 1st Call – not all infrastructure is part of the process
- For example, the challenge for a municipality building a road in south east Sask.
 - ✓ Call Sask 1st Call with locate request
 - ✓ Line locates provided by Sask 1st Call members
 - ✓ What about other buried infrastructure?
 - ✓ What does municipality do?
 - ✓ Risks and potential consequences!

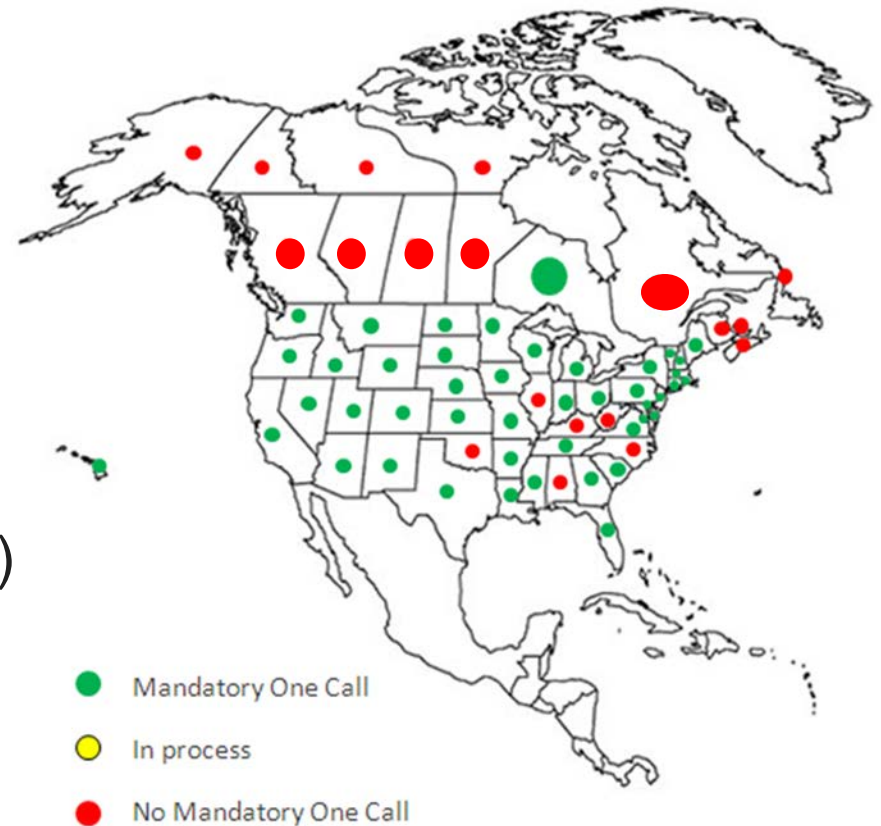


What is Mandatory One Call

- Every person or entity that owns or operates underground infrastructure that is within, crosses, or is in the vicinity of a public right of way must be a member of a One Call System
 - ✓ This includes utilities, transmission and telecommunication companies, municipalities, provincial, territorial and federal agencies and private or public institutions that operate their own infrastructure
- Does not include private landowners who may operate buried infrastructure which does not cross a public right of way
- Anyone digging or disturbing the ground must call for a locate!

Saskatchewan is lagging the rest of North America

- Ontario has led the way with legislation in 2012
- Almost all of the United States has One Call legislation
- Provinces have various stages of “One Call”
(Alberta & B.C. Energy sector)
- Canadian Senate Bill S-233 drafted for federally regulated infrastructure and federal lands.





Benefits of Mandatory One Call

- Clear and consistent ground disturbance processes
- Unified and effective approach that is easy to navigate ie One Call for Excavators
- Enhanced awareness by all stakeholders
- Cost benefit of millions of dollars
- Reduced safety and environmental risks
- Results in accurate data/mapping of all underground infrastructure



Cost of an Incident

Direct Costs:

- Repair or replacement of infrastructure
- Losses of services, product and revenue
- Equipment damage and repair
- Worker downtime and project delays
- Insurance liability and property damage costs

Indirect Costs:

- Customer costs due to loss of service
- Investigation reporting; internal and external
- Environmental mitigation costs
- Corporate and Industry reputation

Societal Costs:

- Emergency response costs and effect on service
- Evacuation and traffic congestion
- Health costs; injuries, fatalities

Saskatchewan direct costs estimated to be at least \$10 million / year



Mandatory One Call for Saskatchewan

- Considerations:
 - ✓ Up front cost for some stakeholders to update mapping of their underground facilities
 - ✓ Development of a process for small municipalities and “deeper” utilities to be effective
 - ✓ Integration with Ministry of Economy --- Energy and Mines plans for permitting of flow lines
 - ✓ Regulations and enforcement
- Transition approach that is communicated well in advance and ensures success



Sask 1st Call Service



- Sask 1st Call
 - Cost recovery from its members (a non-profit organization)
 - Keeps a mapping database of all members' infrastructure
 - Provides the screening and notification service
- Members
 - Provide updated maps to Sask 1st Call
 - Locate facilities when a ticket is issued to them
 - Work with excavators when working around their facilities
- Ground Disturbers/Excavators
 - Free service for those that call Sask 1st Call



SCGA Proposal and Transition Plan

- Propose a multi-year transition plan with input from stakeholders:
 - ✓ Mapping effort and costs identified for owners/Sask 1st Call
 - ✓ Operational costs and processes for facility owners
 - ✓ Awareness process for ground disturbers/public
 - ✓ Propose regulations and identify options for enforcement
- Create a broad stakeholder committee to review proposal, quantify total costs and impacts, and develop legislation. Implementation plan staged for various groups based on risk and ability to deliver.
- Potentially introduce the Spring of 2017

www.scga.ca

**Damage Prevention
is a Shared
Responsibility**

