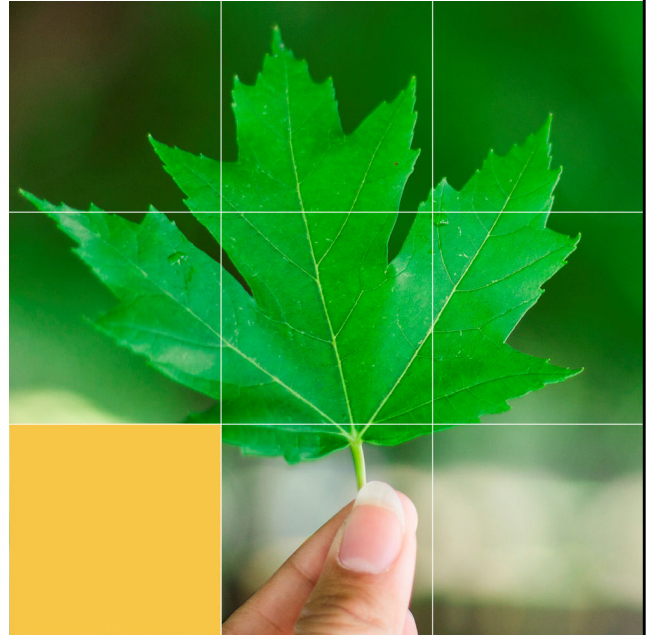


## Damage Prevention Event Report Analysis

**Phil Young**  
Regulatory Compliance Officer  
Safety and Damage Prevention





Good morning everyone, my name is Phil Young, I am joining you today from my home office in St. John's Newfoundland, where I work as a Regulatory Compliance Officer with the Safety and Damage Prevention Team.

For the last couple of months I have been collating Data from DPR report which I have analyzed and intend to share with you today.

## Topics for Discussion

- Data Quality
- DP Regulations(DPR) Event and Damage to Pipe (DTP) Overview
- Repeat Violators
- DPR Cause Analysis
- DTP Cause Analysis

The presentation today will begin with a some basic comments on data quality and CER intentions when collecting DPR reports after which I will describe some more general and targeted analysis that I have completed with respect to:

## Data Quality

### Observations by CER Inspectors



The CER Damage Prevention team analyzes DPR Reporting Data to focus our activities through the identification of themes.

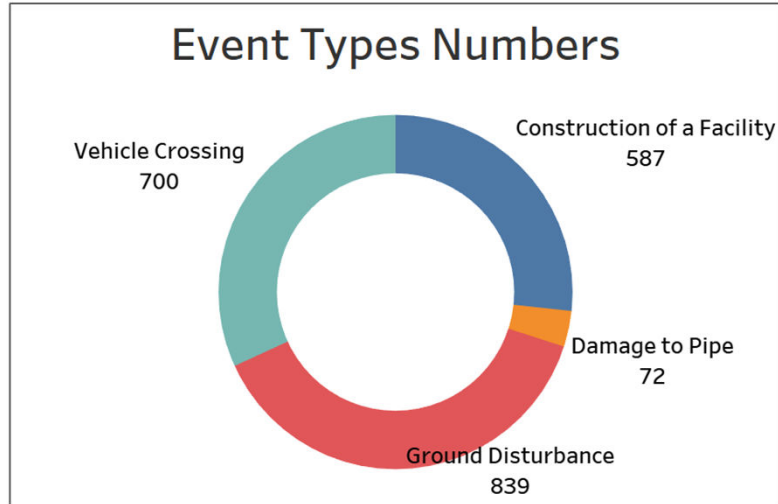
The Data analyzed in this presentation is aggregate of Calendar years 2022, 23, 24 and 25 to date. We have not drawn any conclusions based on the information collected, but utilize it to ask meaningful question and to spark conversation and debate.

The data collected is submitted by our regulated companies and its our hope that through this presentation and your own internal analysis, that the benefit of submitting quality reports will become evident.

The focus of todays presentation is “Repeat Violators”

## General DPR/DTP Overview

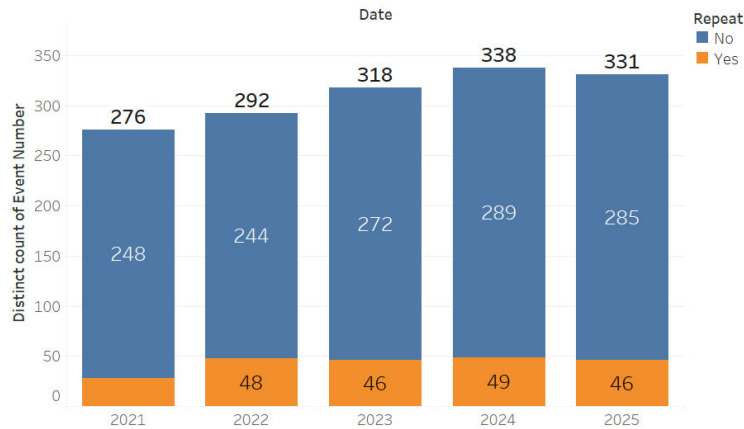




Here we see the distribution of event types over the past 4 years. You can see that ground disturbance accounts for approximately 40% of all event types. It's important to note that this slide represents the type of activity and not the number of reports.

A single report may contain more than one event types.

# of UAs and Contraventions with Repeat Violators - Quarterly

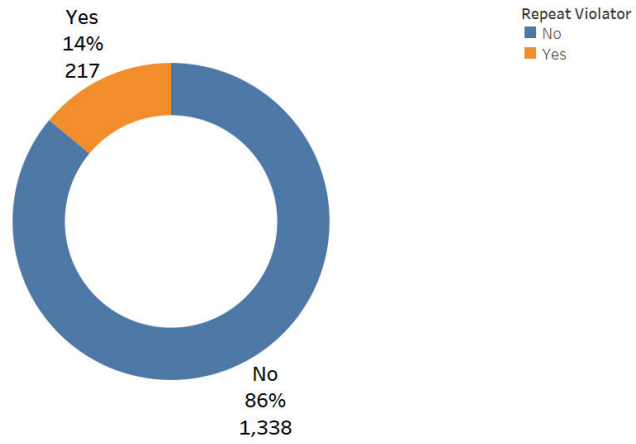


Here we see the total DPR reports year over year

Reporting appears to be trending upward. This may be due to increases in unauthorized activity or possible due to improvements in reporting culture of our regulated companies.

The reports attributed to repeat violators appears relatively stable and considering the increases in overall reports may represent a downward trend.

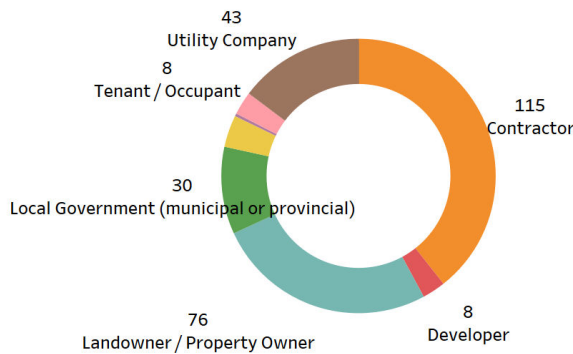
### Percentage of Repeat Violators



Here we see the rate of repeat violators.

### Third Party Repeat Violators

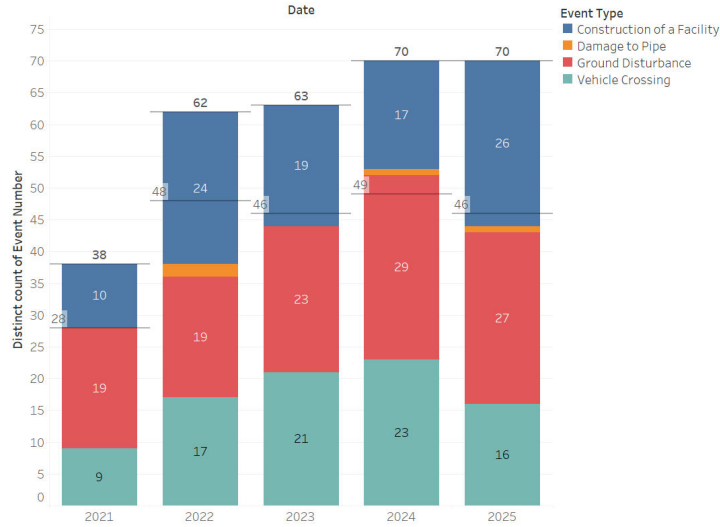
ate 4/1/2021 12:00:0..



Its important to note on this slide that 1<sup>st</sup> and 2<sup>nd</sup> party activity is excluded. Its likely no surprise that third party contractors and property owners account for the vast majority of all Unauthorized activities.

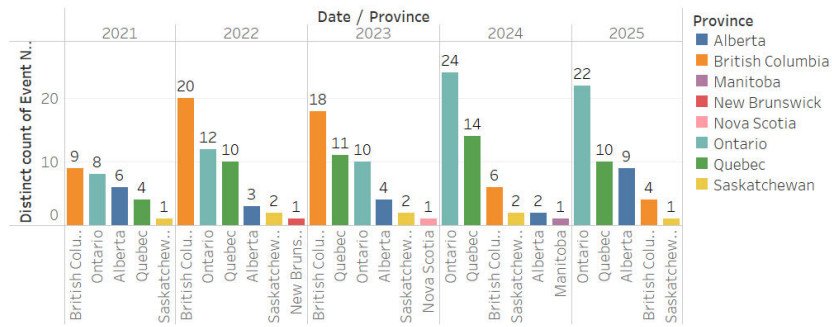
I'd expect this data can be validated by companies internal analysis and would hope that conclusions drawn are informing damage prevention program and public awareness efforts.

Distribution of Event Type for Repeat Violators



Amongst repeat violators we see a fairly even distribution amongst the three event types. There is however an edge for ground disturbance activities. This is alarming as ground disturbance is the activity most likely to result in harm and probability increases when a repeate violators is working near CER regulated pipelines.

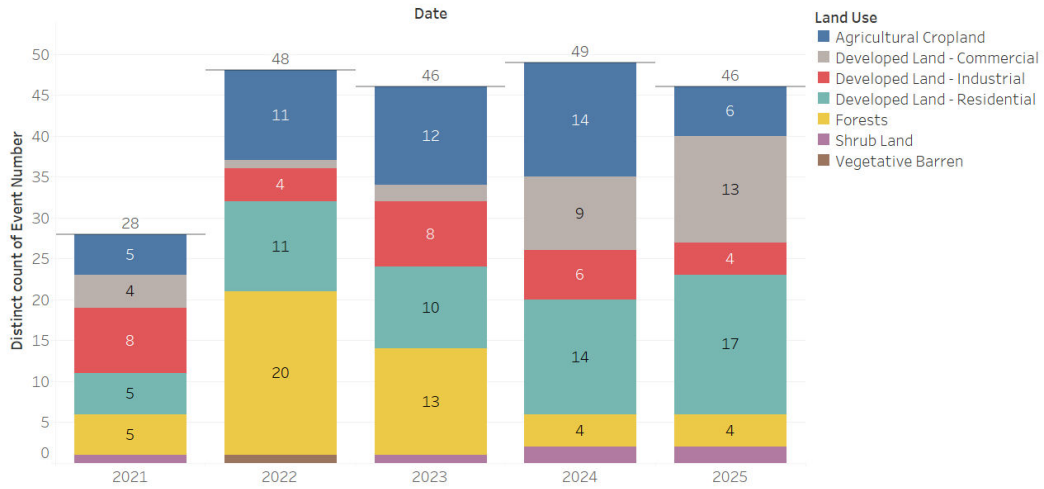
### Distribution of Event Type for Repeat Violators by Province



So what interesting about this slide? To me it's the apparent upward trend of repeat violators identified in Ontario.

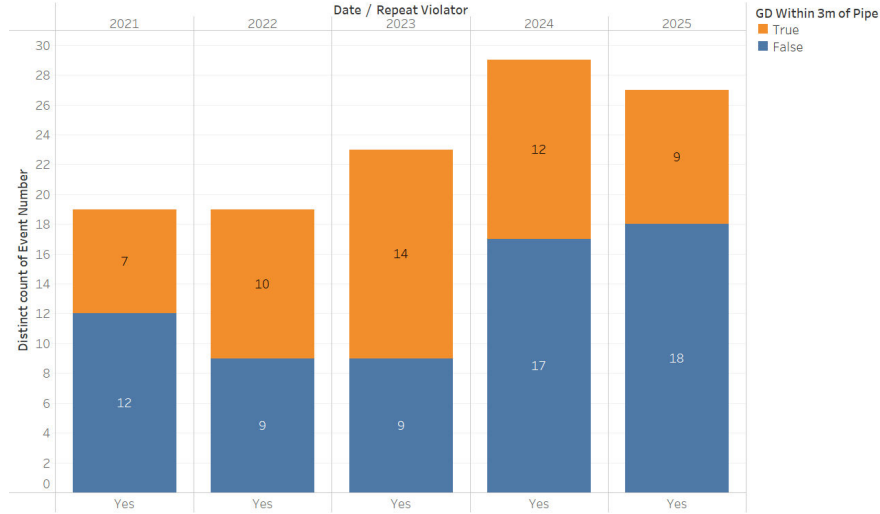
I challenge our operators in Ontario to give this some thought – what could be behind the data – Pipeline and class location, reporting culture, public awareness

### Distribution of Land Use for Repeat Violators



Again, if we focus on the teal in the bar graph we see a upward trend in the repeat violators where the land use in residential. It should be no surprise that where there is people there is activity and risk levels are elevated.

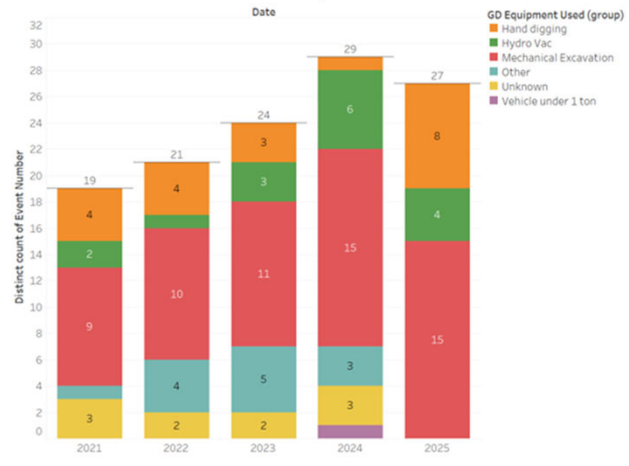
### Repeat Violators + GD within 3m of Pipe for GD Event Types



Here we see the Tri-fecta and rates of the riskiest actors. The full bar represents the total number of unauthorized ground disturbance within 3m of CER regulated pipelines.

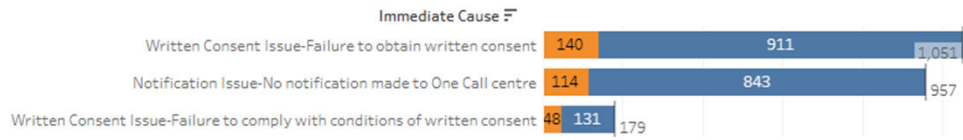
The orange portion of the graph indicates the proportion of risk ground disturbance conducted by repeat violators.

# Excavation Method for Repeat Violators

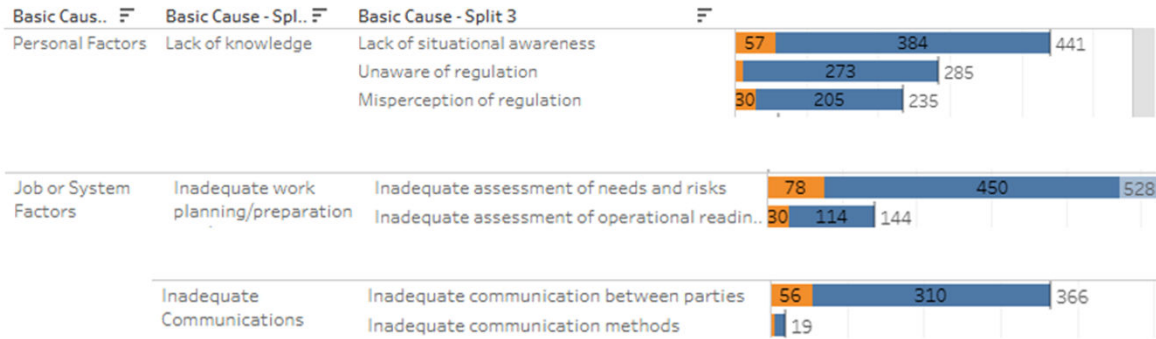


# All DPR – Immediate Cause

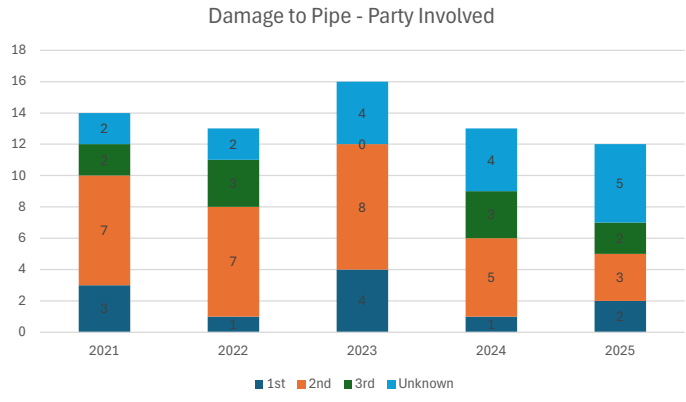
## Immediate Causes of DPRs



## All DPR – Basic Cause

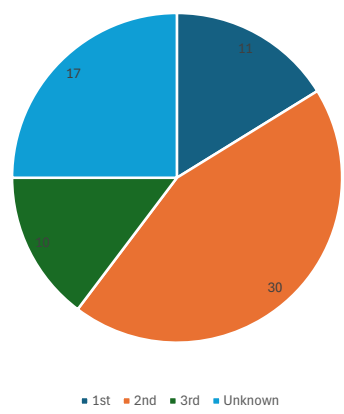


# Damage to Pipe

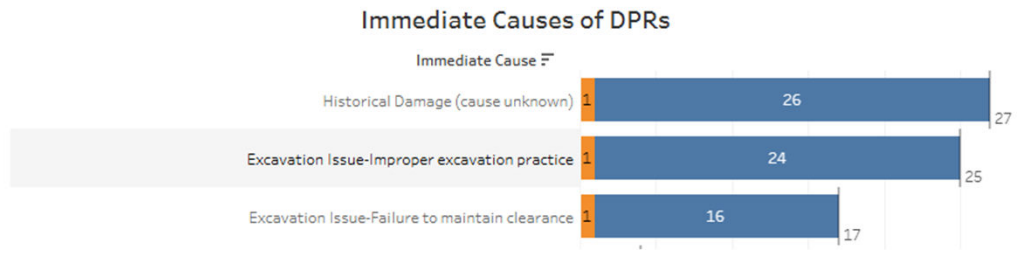


# Damage to Pipe

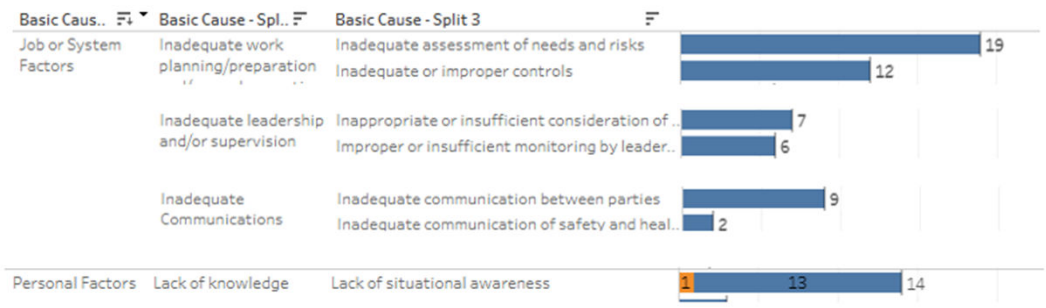
2021-2025 DTP by Party Involved



# Damage to Pipe – Immediate Cause



## Damage to Pipe – Basic Cause





So I hope the slides have given you something to think about they will be available for distribution so that you can take a closer look.

If there is something in the data that can support your efforts and initiatives then that's great.

We will continue to analyze the reports we receive as this information does inform our strategic plan.

I'll end on the same note I began with.

The integrity of the data is key. Quality reports will result in quality analysis and meaningful learning.



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