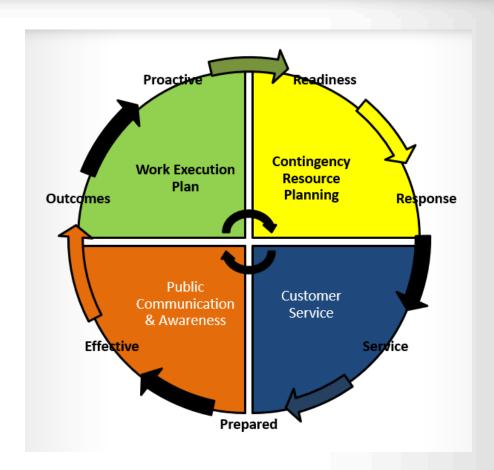
# 2019 Spring Preparedness March 12, 2019 Committee of the Whole

# The Spring Strategy in Preparedness

BE More Proactive (planned)

BE More Effective (reactiveness)



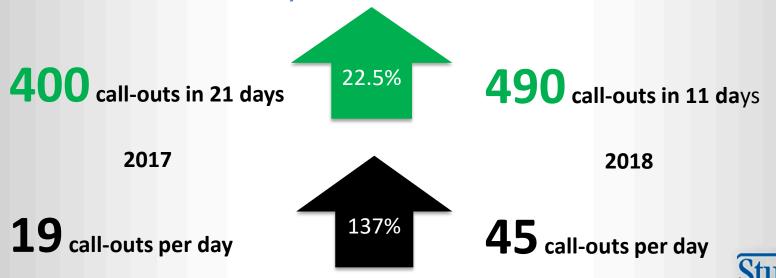


# Background

As part of our mandate, Transportation Services institutes measures to mitigate impacts of spring weather and runoff.

### **IMPACT SEVERITY INFLUENCED BY:**

- Aggressive warming trends with above-average snow accumulations which promote higher runoff within compressed timeframes.
- Abundance of freeze-thaw cycles induce weakness and deterioration of road surfaces.



# 2018 Spring Experience

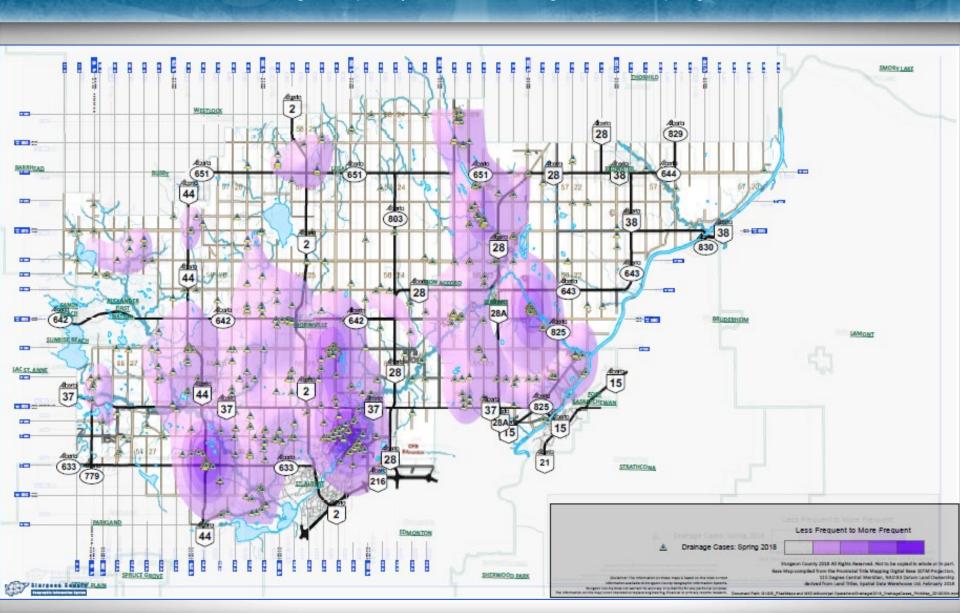


- Concentration of resources committed to drainage
- Limitations imposed on road conditioning
- New baseline established
- Enhanced Preparedness
- Leads to more timely service delivery



# Spring 2018

Overview of High Frequency areas for Drainage Cases in Spring 2018



# Enhanced Capacities – 2019



- ➤ Engaging industry Actively engaging contracted services and equipment and further incorporated in contingency planning. Three crews, along with beaver control and management dedicated to drainage.
- > Communication and awareness campaign Utilizing radio and social media.
- ➤ **Extended office hours** Accommodation of an afternoon/evening shift for administrative staff to enhance customer support during the spring thaw period.
- ➤ **Staff deployment** Earlier onboarding of seasonal staff for full complement of crews and scheduling additional shift to promote enhanced field presence. Three steam crews, one sign crew and pumping crew dedicated to drainage.
- Enhanced Equipment Increased ability for response.
- ➤ **Designated Pothole patching crew** Greater focus, which correlates to more timely and higher quality of pavement repair.
- Proactive flooding mitigation Advance inspections, steaming and snow removal from identified trouble spots to minimize adverse impacts of the spring thaw, enhanced coordination on beaver control and dam removal.

# **Spring Response Strategy**

### **Traffic Safety**

 When a road or bridge washout occurs or is expected to occur and is deemed non-preventable, the road or bridge will be closed.

### **On Call Service**

 Staff and equipment will be available 24 hours/day, 7 days/week throughout the spring runoff season.

### **Operations**

- Snow Clearing (Preventative Measure) Removal of accumulated snow from known trouble spots.
- Culvert Steaming (Reactive Measure) To facilitate flow and eliminate flooding and/or erosion.
- Pumping (Reactive Measure)



# Spring Response Strategy Con't

### **Resident Communications**

- Customer response team will triage issues based on priority
- Residents will be given an estimated resolution time

### Aftermath/Repair

- Roads where washouts occur roads will be repaired and reopened as soon as safe to do so
- Culverts information gathered during runoff will be utilized in proactive preventative maintenance

### **Priority Areas (1)**

- Cardiff Pittsburgh/Echoes
- Pro North Industrial Park
- Villeneuve
- Riviere Qui Barre
- Sturgeon Industrial Park
- Braun Village
- Skyglen Subdivision
- Heritage Industrial Park
- Alcomdale
- Select Township and Range Roads TWP RDs 543,544,564, RR's 271,270,265,264

### **Prioritization (Triage) Guidelines:**

**1A:** Immediate damage occurring to public infrastructure

**1B**: Immediate damage occurring to private infrastructure

**2A**: High risk of damage occurring to public infrastructure

**2B:** High risk of damage occurring to private infrastructure

**3A**: Med to low risk of damage occurring to public infrastructure

**3B**: Med to low of damage occurring to private infrastructure



## Service Enhancement - Drainage Plan

- Overall drainage patterns and constraints in water management
- Areas of focus to alleviate\lessen impacts through staged release and containment

# THE BIG PICTURE NEXT EXIT

- Ties in development and previous studies that may have site specific for development but ultimately contribute to impacts
- Utilize engineering services to provide support on this initiative

## **DRAINAGE PLAN Cont'd**

### **LOCALIZED PERSPECTIVE/IMPACTS**

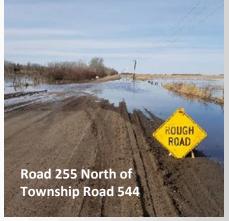
- Localized drainage issues, small scale in respect to the County's landmass 2,300 square kilometres.
- Identify legacy issues within our spring preparedness plan and other longstanding, recurring problems, subdivision backlot drainage, staged approach.
- Under bridge site surveys and recommendations.

Site specific drainage capacity and release, upstream resolution and downstream

impacts.









# Thank You



