

Goal 1: Integrate climate change adaptation into municipal planning, asset management and operations

The goal will ensure that climate change adaptation is integrated into the entire municipality in order to help support the subsequent goals.

Goal 2: Support municipal and community resilience awareness

This goal will ensure that accurate information and resources are available to the municipality and community in order to help support the subsequent goals.

Goal 3: Ensure community readiness and a coordinated response to extreme weather events

The following impacts will be addressed under Goal 3:

53	Extreme Weather Event	Increase in frequency of extreme weather events	Increased number of displaced residents from their homes due to extreme weather events, leading to an increase usage of the Emergency Operations Centre (Town Hall), request for service, coordination and communications from municipal staff.
61	Extreme Weather Event	Increase in frequency of extreme weather events	Increased liability, public and health and safety hazards and risks, private property damage, dangerous conditions that may impact the entire municipality.
55	Extreme Weather Event	Increase in frequency of extreme weather events	Increased damage and/or decreased service life of municipal infrastructure (buildings, underground services, roads, bridges/culverts), public spaces requiring the potential closure of municipal facilities, increase request for service, staff time to repair/replace infrastructure and financial cost to the municipality.

Goal 4: Reduce risks to buildings, properties and people from flooding

The following impacts will be addressed under Goal 4:

75	Precipitation	Increase in Winter Precipitation and Snow Melts	Changes in winter precipitation type (rain), potentially when the ground is frozen and saturated resulting in surcharge and runoff from rapid snowmelt resulting in the overburdening of the municipal stormwater system and risk of flooding leading to damage to municipal infrastructure, increase in financial cost to the municipality and management required during the response period.
42	Extreme Weather Event	Heavy localized flooding events	Overwhelming of sanitary sewers resulting in the potential back up of sewage into basements, particularly in low lying areas.
47	Extreme Weather Event	Heavy localized flooding events	Increased stress on bridges/culverts, potential for road washouts, erosion and transportation disruptions requiring an increase in emergency service requests and staff time to monitor, repair/replace damages, financial cost to the municipality
48	Extreme Weather Event	Heavy localized flooding events	Increased damage to private property due to flooding resulting in an increase in number of residents contacting the municipality, specifically directed to the Building Department requesting information on flooding and assistance to address the situation.

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Draft Goals and Associated Impacts (as of February 27, 2020)

Goal 5: Minimize disruption to municipal service delivery

The following impacts will be addressed under Goal 5:

54	Extreme Weather Event	Increase in frequency of extreme weather events	Increased demand for essential services and disaster recovery costs resulting in an increase in staff time and financial cost to the municipality.
59	Extreme Weather Event	Increase in frequency of extreme weather events	Increased power outages and electrical surges, resulting in the inability for municipal staff to utilize phones and computers, process work orders, provide communications to the entire municipality and access information for coordinated effort during extreme weather events.
37	Precipitation	Increased Winter Precipitation	Increased outdoor maintenance from precipitation falling as snow or rain requiring more staff time to monitor and operate, equipment requirements and cost to the municipality.
71	Extreme Weather Event	Continued occurrence of extreme cold events	Increased risk of deep freeze to municipal infrastructure causing deficiencies resulting in an increased immediate request for service, staff time to repair/replace the damaged infrastructure and cost to the municipality.

Goal 6: Reduce health and safety risks to municipal workers and community members from extreme temperatures

The following impacts will be addressed under Goal 6:

68	Extreme Weather Event	Increased frequency and duration of drought	Increased risk of fire during dry conditions resulting in an increase in fire related calls and increase in the total number of calls for fire department during dry periods.
16	Temperature	Increase in Very Hot Days (over 30°C)	Reduced air quality that may cause heat street or respiratory illnesses lead to an increased in request for service and staff time to accommodate demand for outdoor cooling facilities (pools, tree covered areas, splash pads) and indoor facilities.
38	Extreme Weather Event	Increased frequency and duration of heatwaves	Increased health and safety risk to vulnerable populations resulting in an increase in service requests, access to cooling facility resulting in increased request for service and staff time and coordination, potentially outside of regular working hours.
73	Extreme Weather Event	Continued occurrence of extreme cold events	Increased health and safety risk (thermoregulation, frostbite) to vulnerable populations resulting in an increase in the need for community cold alerts, service requests, and access to warming facility resulting in increased request for service and staff time and coordination, potentially outside of regular working hours.
22	Temperature	Increase in Very Hot Days (over 30°C)	Reduced air quality that may cause heat stress or respiratory illnesses resulting in increased health and safety risk to municipal volunteer fire fighters working during periods of very hot days requiring appropriate working hours, cooling aids and relief mechanisms.

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Goal 7: Protect and enhance the natural landscape to mitigate impacts

The following impacts will be addressed under Goal 7:

3	Temperature	Increased Annual Temperature / Increase in Winter Temperatures	Extended growing seasons and increased survival rates for pests resulting in the potential for an increase presence and impacts (damage or loss) from invasive species to tree and vegetation within municipally owned property.
44	Extreme Weather Event	Heavy localized flooding events	Increase in erosion rates, sediment release and surface runoff within riparian areas and unstable transition to low lying areas, resulting in an increased risk of pollutants from the landscape, increase in bank destabilization, loss of habitat and overall impact on water quality.

Goal 8: Strengthen the resiliency of municipal **infrastructure and** facilities

The following impacts will be addressed under Goal 8:

65	Extreme Weather Event	Increased frequency and duration of drought / Increased Summer Temperatures	Reduced quality of outdoor municipal facilities (sports fields, parks, natural areas and trails, cemetery) and lawns, gardens and drought in-tolerant trees and vegetation requiring an increase in municipal water usage, request for service, and maintenance and monitoring of the quality of spaces and potential removal of distressed species.
29	Temperature	Increased in Freeze-thaw cycles in January and February	Increased underground movement causing potential damage to municipal infrastructure (buildings, underground services, roads, sidewalks, cemetery) resulting in increase in request for service and staff time to monitoring and repair/replace, increased costs and integration into asset management planning.
14	Temperature	Increase in Very Hot Days (over 30°C)	Increased damage to hard surfaces (roads, sidewalks) resulting in an increase in request for service and staff time to repair/replace, increased costs and integration into asset management planning.
35	Precipitation	Increased Winter Precipitation	Increased hazardous road and walking conditions resulting in an increased use of salt and/or sand on roadways, sidewalks and in parking lots resulting in increase in staff time to monitor, increased corrosion to equipment and facilities, and greater impact on water quality within the municipality