

SUMMER VILLAGE OF GHOST LAKE

CLIMATE RISK ASSESSMENT & ADAPTATION PLAN

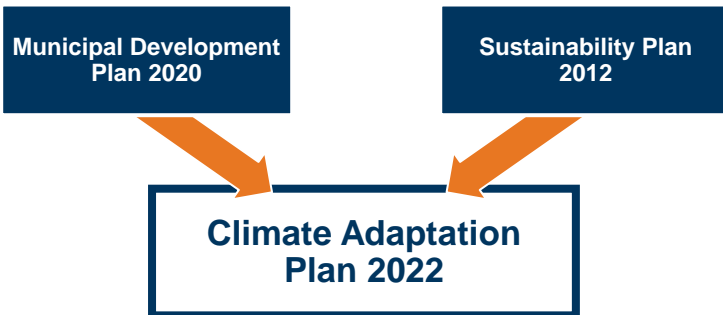
Community Bulletin #2

December 5, 2022

OUR PLAN

Climate change is a global challenge which requires collective local action to address the degree of change and adapt to the changing climate and its associated impacts. SVGL has a role to play in building the resilience of Canadian communities.

Acknowledging that SVGL values self-sufficiency and citizen action, this Plan is intended to achieve a balance between governance and community approaches, prioritizing multi-solving solutions and actions with co-benefits wherever possible to help overcome the capacity and resourcing challenges that come with being a small rural municipality. To facilitate an effective climate adaptation planning process for the Summer Village of Ghost Lake, this Plan is centered around four key pillars of the community (right).



COMMUNITY PILLARS

Homes & People

Key elements include: roads, community hall, community amenities, fire prevention and response, waste management, planning and development approvals process, utilities.

Municipal Buildings & Services

Key elements include: flora and fauna, shoreline, natural spring, wetlands, parks and recreational areas, undeveloped forest and grassland areas.

Parks, Greenspace, & Recreation

Key elements include: groundwater, public and private wells, septic systems, surface water, Ghost Lake reservoir.

Water

Key elements include: safety, community values and interests, communication and interaction, land use, building forms, streetscape and public environment, maintenance of private buildings and property.

This project was funded by the Municipal Climate Change Action Centre (MCCAC). MCCAC is a partnership of Alberta Municipalities, Rural Municipalities of Alberta, and the Government of Alberta.



Questions? Comments?
Stories about climate impact in SVGL?

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The projected changes from the risk assessment are summarized here, as well as the highest priority action from each of the four pillars. The plan contains a total of 20 community actions and some ideas about how residents can participate in helping SVGL achieve their resilience goals.

Negligible Risk Low Risk Moderate Risk High Risk Extreme Risk Special Consideration



Summary of Projected Changes

Baseline Conditions (1981-2010)



Projected 2080s Conditions (2071-2100)



- High and extreme risk interactions for SVGL under projected future conditions resulted from extreme heat, wildfire, wind and extreme combination events, invasive species, extreme precipitation, riverine flooding, and drought and dry conditions.

HIGH PRIORITY ACTIONS



Develop an emergency management plan and associated community engagement programs for residents to understand how to remain safe during extreme events.



Develop and review a fire fighting response plan, including access to water when the lake is at normal level and low level.



Develop and implement a fire-smart climate resilient landscaping program for parks and recreational areas, including actions such as planting drought-tolerant grass and plant species.



Conduct a detailed groundwater assessment to evaluate the likelihood and consequence of climate impacts on well quantity and quality, and explore the feasibility of more specific adaptation actions (where appropriate).