

SUMMER VILLAGE OF GHOST LAKE

CLIMATE RISK ASSESSMENT & ADAPTATION PLAN

Community Bulletin #1

September 5, 2022

CLIMATE RESILIENCE PLANNING

Climate resilience planning is an iterative four-step process. SVGL completed Step 1 by applying for MCCAC funding. Step 2 involves a risk assessment, which is the first phase of this project. In Step 3, adaptation actions and risk treatments will be developed. Lastly, SVGL will implement the actions identified per Step 4 of the Climate Resilience Plan.

During this project, we will identify high and extreme climate risks and then identify future actions to address these potential impacts of a changing climate. This is described in more detail on page two.



KEY CLIMATE HAZARDS



DROUGHT & DRY EVENTS



EXTREME FIRE WEATHER



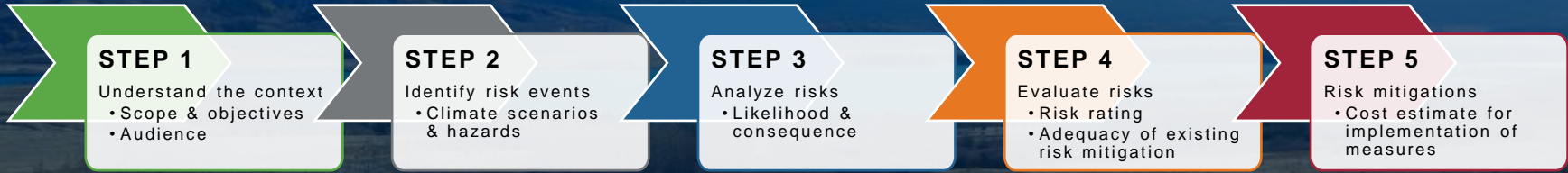
EXTREME PRECIPITATION

UNDERSTANDING LOW-CARBON RESILIENCE



This project focuses on the ‘adaptation’ side. In other words, how we can respond to and prepare for unavoidable climate impacts. We will specifically focus on key community elements such as:

- COMMUNITY HALL
- GREENSPACES
- GROUNDWATER
- RECREATIONAL AREAS



CONSEQUENCE	5	5	10	15	20	25
	4	4	8	12	16	20
	3	3	6	9	12	15
	2	2	4	5	8	10
	1	1	2	3	4	5
		1	2	3	4	5
	LIKELIHOOD					

EXTREME RISK
HIGH RISK
MODERATE RISK
LOW RISK
NEGLIGIBLE RISK
SPECIAL CONSIDERATION

HOW IT WORKS

The first step of the risk assessment is to understand the current state of the community components included in the assessment and compare this to projected future climate conditions in order to understand the 'likelihood' of climate impact. We then assess how severe the outcomes would be if the climate event occurred ('consequence'). The result of comparing likelihood with consequence is an overall 'risk score'.

After the risk assessment, the project team will develop and refine a set of proposed future actions that are tailored to the key community elements that are most important to SVGL. The actions will help address high and extreme risks, with the goal of making SVGL more resilient to future climate impacts. Examples of resiliency planning action categories are shown to the right.



CLIMATE RISK ASSESSMENT

The climate risk assessment will consider the major climate hazards that might impact the Summer Village of Ghost Lake in relation to the components of the community that have been identified as significant. The resulting scores will help us to understand which community elements are at the highest risk of future climate impacts.

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?

CONTACT US

MUSTAFA HASHIMI
Chief Administrative Officer
Summer Village of Ghost Lake
admin@ghostlake.ca

CLARISSA HUFFMAN
Project Manager
Morrison Hershfield
chuffman@morrisonhershfield.com