

VERSION 2.1
December 15, 2017



FIRE PROTECTION PLAN

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The goal of the document is to provide strategies that enhance the protection from wildfire for the Summer Village of Jarvis Bay residents and visitors while protecting the health of the forested area while adhering to the communities planning documents.

DOCUMENTS

Statutory plans and guiding documents utilized in the enclosed strategies include:

- The Municipal Development Plan
 - Land Use Bylaw
 - Wildfire Mitigation Strategy
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MUNICIPAL DEVELOPMENT PLAN

VISION STATEMENT

The following are community statements that define the Summer Village of Jarvis Bay:

- 1) We are exclusively a low density, single family residential community
- 2) We are committed to being good and effective stewards of the environment and will act accordingly
- 3) We are committed to providing municipal services that compliment a simple approach to community living
- 4) We are committed to a community that respects and shows pride with regard to public and private spaces
- 5) We will endeavor to communicate, cooperate and work towards creating a better lake environment with all municipalities surrounding Sylvan Lake

OPEN SPACE MASTER PLAN

The majority of residents of Jarvis Bay have chosen the community because of the recreational lifestyle that the Sylvan Lake area offers. Although the current municipal owned land generally is left natural, it is Council's desire to provide an Open Space system that provides a variety of experiences for the residents. Additionally, Jarvis Bay faces pressures from outside users - ranging from parking, private, lessons on public property, to storage - that will require monitoring and possible intervention.

New residential developments should incorporate alternative forms of recreational and open space lands that will meet the needs of the future residents. The lands that do not have direct lakeshore access require a more detailed and comprehensive plan.

Although traffic within the Summer Village does not, as yet, present problems for pedestrians or cyclists, the desire for a trail system that follows Highway 20 alignment is seen as positive by the majority of the residents.

- 1) To maintain the privacy of all residents and ensure that negative impacts of non-resident users are mitigated.
- 2) To maintain and enhance the environmental integrity of the open spaces and provide a greater variety of passive recreational activities.
- 3) To ensure that the provision of open space and reserve land is in balance with the demands of the residents.
- 4) To ensure that public areas do not become an economic burden on local ratepayers.

LAND USE BYLAW

ENVIRONMENTAL OPEN SPACE DISTRICT (EOS)

Permitted Use - Natural Environmental Preservation
Parks and Playground

Discretionary Uses - Accessory Use
Mechanized Excavation, Stripping and Grading
Signs (public)
Trails
Utility Building
Walkway
Any use that is similar, in the opinion of the Development Authority, to the permitted or discretionary uses described above.

WILDFIRE MITIGATION STRATEGY

WILDFIRE INCIDENCE

Grass and field fires are the most common type of wildfire in Sylvan Lake. The cause of wildfire is almost exclusively human induced, however, lightning has started fires in the area. The average number of wildfires per year is highly variable and dependent on ignition sources, time of year and fuel types.








FIREFIGHTING CAPABILITIES

Sylvan Lake Fire Department relies mainly on volunteer firefighters and provides fire rescue and emergency medical services to Sylvan Lake residents. Bush trucks and mini-pumpers are on pick-up truck chassis and tend to be better suited to action wildfires. The fire department has a water tender, which will benefit remote firefighting by supplying water to areas where water sources may not be readily available.

FIRESMART ACTIVITIES

Jarvis Bay has a LOW hazard rating based on the risk and hazard assessment. The intent of the Fire Smart Activities section is to make recommendations considering wildfire incidence, wildfire behavior potential, existing barriers to the fire spread and values at risk.

SYLVAN LAKE FIRE DEPARTMENT RESOURCES

-  35 personnel
-  3 engines
-  1 water tender
-  1 rescue unit
-  1 utility vehicle
-  1 bush truck
-  2 squad trucks

SUPPRESSION TACTICS

The initial attack would be conducted with the water that was brought on the trucks by the Sylvan Lake Fire Department water tenders. If additional water was required a couple of scenarios can unfold:

- 1 Tender would locate closest hydrant and shuttle water back and forth from there. Dumping in a porta tank (winter operations, lake frozen). Generally speaking if this scenario was enacted other Tenders from Mutual Aid partners would be dispatched.
- 2 A “turbo draft” device would be deployed from the engine and water would be drafted from a water supply (lake).
- 3 A variation of 1 & 2 could be utilized.

EVACUATION ROUTES

Northern Portion - South on Jarvis Bay Drive, Jarvis Glen Way to Township Road 391 to Highway 20

Southern Portion - Head east to 31 Street, Sylvan Lake or 50 A Avenue, Sylvan Lake

Walking Path at the North End of Jarvis Bay Drive through Jarvis Bay Provincial Park

FIRE PROTECTION PLAN FRAMEWORK

PURPOSE

The purpose of a Fire Protection Plan is to provide an administrative process to document adaptive management by the Summer Village to minimize losses due to a fire. A fire Protection Plan must be completed with the aid and support of fire professionals and industry leaders. Three documents have been developed for the Summer Villages to assist with the completion of their own Fire Protection Plan. When utilized together, the three documents will guide a Summer Village through a step-by-step process to develop their own unique Fire Protection Plan.



FIRE PROTECTION FRAMEWORK

The Framework document is intended to assist a Summer Village with the completion of the Workbook by providing additional information and reference material.

FIRE PROTECTION WORKBOOK

The Workbook is intended for a Summer Village to complete with the support of a variety of stakeholder to increase public safety within the community. The following chart provides the Summary of the Fire Protection Process.

GOAL	Objective	Action	Implementation	Monitoring	Evaluation
To minimize losses due to fire	Meet Standard Practices in Fire Department Resources and Emergency Response	Schedule annual meeting with Fire Department	Have annual meeting with Fire Department	Have meetings occurred annually	
		Establish Fire Lanes or access points at recreational area for emergency response apparatus and personnel.	Develop annual process to maintain and enhance fire lanes.	Is the program working and fire lanes in place	
	Meet Standard Practices in Evacuation	Copy of the plan is readily available to the public	Include in Emergency Education Program	Annual review and amendment to education program as updated information is available	
	Meet Standard Practices in Wildfire	Wildfire Assessment is completed and accepted	Complete Wild Fire Threat Assessment every three years	Include in 5 year plan	
		Wildfire Preparedness Guide is completed and accepted	Appoint a member of the Community to spearhead a Fire Smart Program	Review at Annual Information Meetings	
	Meet Standard Practices in Outside Fuel and Ignition Hazards - Private	Bylaws are in Place to manage hazards on private property	Create Community standards bylaw and enforce	Reduced hazards	
	Meet Standard Practices in Outside Fuel and Ignition Hazards - Public	Public Land has a combustible debris removal program	Create Forest Management Strategy and Provide Annual Funding through budget process	Decreased debris in reserves	
	Meet Standard Practices in Structures - Residential	Programs are in place to educate residents about smoke detectors, carbon monoxide detectors, and fire extinguishers	Create education program	Public participation	
	Meet Standard Practices in Community Access	Access can accommodate two way traffic: local fire apparatuses entering the area and traffic evacuating the area	Increase width or roadways	Achieve wider roads	
		Each property is identified by address	Municipal Program for installation to be developed	Installation of address signs	

FIRE PROTECTION ACCREDITATION

Once the Workbook and Accreditation book are completed a level of achievement can be determined. There are four levels of achievement: Bronze, Silver, Gold and Platinum.

Achievement Minimums			
Achievement	Standard Practices	Best Practices	Leading Edge Practices
Bronze	100%	N/A	N/A
Silver	100%	25%	N/A
Gold	100%	25%	20%
Platinum	100%	50%	50%

The Summer Village of Jarvis Bay Summary of Practices follows:

Summary of Percentage Practices			
Category	Standard	Best	Leading Edge
Fire Department Resources and Emergency Response	67	100	25
Water Resources	100	100	0
Evacuation	50	0	0
Wildfire	0	50	0
Outside Fuel and Ignition Hazards - Private	50	66	50
Outside Fuel and Ignition Hazards - Public	50	50	33
Structures - Residential	50	25	0
Structures - Community	100	0	0
Community Access	50	33	0
Industrial Activities	100	100	0
Utilities	100	0	0
Monitoring			
Evaluation			
Average Completed	60%	48%	10%

The documentation provides no incentives for Municipalities or Communities for achieving any level of Accreditation.

REPORT RECOMMENDATIONS

WILDFIRE MITIGATION STRATEGY RECOMMENDATIONS

1. Education Recommendations

- The Summer Village educates and encourages public engagement with FireSmart using newsletters, websites and open house meetings. MODERATE
- The Summer Village identifies a willing community leader to work with the community on FireSmart initiatives. This will lead to community recognition by FireSmart Canada. LOW

2. Development Recommendations

- Develop second entrance for the northern section of Jarvis Bay. HIGH
- The Summer Village meets with the local fire station for an orientation day to discuss emergency response issues. LOW
- The Summer Village acquires standard signage for each lot. MODERATE

3. Vegetation Management Recommendations

- Property owners mow and maintain grass, debris, and other combustible materials. Prune conifer trees to a height of 2 meters above ground level. LOW
- Summer Village supply a debris disposal service to assist resident treatments on private property. MODERATE

4. Legislation Recommendations

- Jarvis Bay updates their Fire Bylaw and review Town of Sylvan Lake Fire Protection Bylaw for any discrepancies. MODERATE

FIRE PROTECTION PLAN FRAMEWORK RECOMMENDATIONS

- Schedule annual meeting with Fire Department
- Establish Fire Lanes or access points at recreational area for emergency response apparatus and personnel.
- Copy of the Evacuation Plan is readily available to the public
- Wildfire Assessment is completed and accepted
- Wildfire Preparedness Guide is completed and accepted
- Bylaws are in Place to manage hazards on private property
- Public Land has a combustible debris removal program
- Programs are in place to educate residents about smoke detectors, carbon monoxide detectors, and fire extinguishers
- Access can accommodate two way traffic: local fire apparatuses entering the area and traffic evacuating the area
- Each property is identified by address

ADMINISTRATIVE RECOMMENDATIONS

- Complete Fire Protection Framework Documents for updated information
- Complete Wildfire Assessment
- Complete Forest Health Plan
- The Summer Village educates and encourages public engagement with FireSmart using newsletters, websites and open house meetings.
- Jarvis Bay updates their Fire Bylaw and review Town of Sylvan Lake Fire Protection Bylaw for any discrepancies
- Schedule annual meeting with Fire Department
- Establish Fire Lanes or access points at recreational area for emergency response apparatus and personnel.
- Public Land has a combustible debris removal program
- Programs are in place to educate residents about smoke detectors, carbon monoxide detectors, and fire extinguishers
- Each property is identified by address

2018 IMPLEMENTATION STRATEGIES

- The Summer Village educates and encourages public engagement with FireSmart using newsletters, websites and open house meetings.
- Jarvis Bay updates their Fire Bylaw and review Town of Sylvan Lake Fire Protection Bylaw for any discrepancies
- Schedule annual meeting with Fire Department
- Programs are in place to educate residents about smoke detectors, carbon monoxide detectors, and fire extinguishers

2019 IMPLEMENTATION STRATEGIES

- Establish Fire Lanes or access points at recreational area for emergency response apparatus and personnel.
- Public Land has a combustible debris removal program

2020 IMPLEMENTATION STRATEGIES

- Complete Fire Protection Framework Documents for updated information
- Complete Wildfire Assessment
- Complete Forest Health Plan
- Facilitate a review of the Wild Fire Mitigation Strategy