



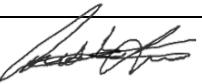
• ELECTORAL AREA L •

Community Wildfire Resiliency Plan 2025



Registered Professional Signature and Seal

This CWRP has been prepared for the Cariboo Regional District – Electoral Area L

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November 28, 2025	
<i>I certify that the work described herein fulfills the standards expected of a registrant of the Forest Professionals British Columbia and that I did personally supervise the work.</i>	
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Submission Page

Submitted to:

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November 28, 2025

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Date

Acknowledgments

This Community Wildfire Resiliency Plan (CWRP) is one of six CWRPs developed for the electoral areas located within the South and Central Cariboo regions. The Cariboo Regional District encompasses twelve electoral areas in total and CWRPs for the remaining 6 electoral areas within the north and west are planned to be completed in 2026. The CRD respectfully acknowledges that this project is taking place on the unceded traditional territories of the Secwépemc, Southern Dakelh, and Tsilhqot'in Nations, specifically the territories of T'elixc (Williams Lake First Nation), Tsq'ésce'n First Nation, Xat'súll First Nation, Esk'etemc First Nation, Stswecem'c Xget'tem First Nation, and ?Esdilagh First Nation. We gratefully acknowledge and appreciate their contributions to the development of this plan.

Forsite Fire would like to acknowledge the many individuals who invested time and provided invaluable input and contributions during the development of this CWRP, including but not limited to:

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This report would not be possible without the Community Resiliency Investment (CRI) Program and funding from the Union of British Columbia Municipalities (UBCM).

Executive Summary

Across British Columbia, Wildfire is a natural disturbance agent on the landscape that helps create and maintain healthy forest ecosystems and ecosystem functions¹. With warming temperatures, changing precipitation regimes due to climate change, and increasing human development and activity in or near forests, British Columbia is experiencing a sustained increase in wildfire behaviour and events, particularly in the wildland urban interface². The notable wildfire seasons of 2017, 2018, 2021, and 2023, and 2024 highlight the potential impacts wildfire activity can have on communities.

The 2017 wildfire season was particularly impactful for the Cariboo Regional District. During the 77 days from July 6th until September 20th, the Cariboo Regional District Emergency Operations Centre issued 149 alerts and order changes impacting 35,616 residents with 48% of the region's population having to evacuate. Sixty homes and 167 other structures were lost due to the fires. In response, an After-Action Report was developed to highlight and improve on successes and failures. The development of this Community Wildfire Resiliency Plan for Electoral Area L, and the implementation of the recommended actions aim to strengthen the resiliency to negative wildfire impacts across the region and bolster FireSmart practices.

The purpose of this CWRP for the Cariboo Regional District (CRD), Electoral Area L is to:

- i. identify and assess wildfire hazards within and around Electoral Area L,
- ii. assess potential risks and impacts to the community and infrastructure from wildfires, and
- iii. provide effective and feasible mitigation strategies to reduce identified hazards and risk.

This CWRP is structured around the seven FireSmart disciplines, providing a comprehensive framework for addressing wildfire mitigation and risk reduction. The seven FireSmart disciplines are:

1. Education
2. Legislation and Planning
3. Development Considerations
4. Interagency Cooperation
5. Cross-training
6. Emergency Planning
7. Vegetation Management

Electoral Area L, known as the Interlakes/Lone Butte area, is located within the southeast corner of the Regional District and encompasses an area of 127,000 hectares. Area L borders 100 Mile House to the northwest and the Thompson-Nicola Regional District along its southern and eastern edges. The electoral area contains a large number of lakes with densely populated communities situated around them. The major communities in this area include Deka Lake, Sheridan Lake, Roe Lake, Bridge Lake, Lone Butte, Horse Lake, Watch Lake, and the northern part of Green Lake. Many properties within the electoral area are recreational properties, creating seasonal fluctuations in the population numbers.

¹ British Columbia Wildfire Service. (n.d). Prevention. Retrieved September 4, 2025, from <https://www2.gov.bc.ca/gov/content/safety/wildfire-status/prevention/prescribed-burning>

² British Columbia Wildfire Service. (n.d). Prevention. Retrieved July 17, 2024, from <https://www2.gov.bc.ca/gov/content/safety/wildfire-status/prevention>

The development of this CWRP included a multi-phase approach including analysis of background data, public engagement, engagement with Indigenous Governments, local wildfire threat assessment through collection of field data, and development of a risk mitigation strategy based on the unique attributes of Electoral Area L.

Table 1: Cariboo Regional District Electoral Area L CWRP Risk Assessment and Action Plan Summary summarizes the recommended action items for Electoral Area L within the Cariboo Regional District as identified by this CWRP. Implementing these measures will require coordinated efforts by the Cariboo Regional District in partnership with other agencies and stakeholders, including but not limited to, Indigenous Governments, provincial government agencies, adjacent municipal governments and partners, and community members/private landowners.

Summary of Identified Risks and Action Plan

Table 1: Cariboo Regional District Electoral Area L CWRP Risk Assessment and Action Plan Summary

Risk Assessment
<p><i>The purpose of a risk assessment is to identify the specific risks to a community and its assets. An ongoing review of the risk assessment should occur annually.</i></p>
<p>This CWRP highlights identified risks and recommended actions to enhance wildfire resiliency within the Cariboo Regional District, and specifically, the communities within Electoral Area L. It is important to read and understand this CWRP's identified risks and recommended action items. The risks listed below were identified based on background research, field work data collection, conversations with internal staff within the CRD Emergency Program Services department and other CRD departments, external partners including BC Wildfire Service and the Ministry of Forests, and feedback received from public and Indigenous Government engagement.</p> <p>The identified risks below are listed in no particular order:</p> <ul style="list-style-type: none"> I. Much of Electoral Area L is characterized by a mountainous and undulating terrain, encompassing several large lakes and offering high recreational activity. Despite having forests characterized by wetter, temperate rainforest, fire history within the area demonstrates the ability for these forests to sustain high-intensity fires. Many communities within the electoral area contain concentrated neighbourhoods and subdivisions, adjacent to lakes and heavily forested areas with constrained egress routes. II. Over 40% of the area within the Wildland Urban Interface in Electoral Area L is occupied by private land, with many large rural private land parcels, as well as densely concentrated urban areas. This limits opportunities for meaningful fuel management treatments on provincial crown land adjacent to homes and structures. III. Between 2016 and 2021, Electoral Area L saw a population increase of 13.4 %, bringing the 2021 population total to nearly 4,800 residents. Increasing population can put a strain on the public services and resources and require the capacities of these services and resources, such as fire departments and road capacity, to grow at an equivalent rate. Emergency planning needs to consider the logistics of increasing populations. IV. The majority of communities and residences within Electoral Area L lie within the boundaries of an Official Community Plan (OCP). These include the South Cariboo Area OCP, the Interlakes Area OCP, and the Green Lake Area OCP. Each OCP contains a range of policies and objectives pertaining to zoning and development in relation to wildfire hazard. However, none of the OCPs officially designate Development Permit Areas for wildfire hazard, and many of these policies pertaining to wildfire hazard do not explicitly state requirements for single building/parcel development. Newly built structures and future development could be at risk from wildfires if they are not built to FireSmart standards. V. Many communities within Electoral Area L contain high-density residences with limited egress routes. Limited or congested egress routes pose a concern for evacuation safety in the event of a wildfire. Comprehensive emergency and evacuation planning that more thoroughly considered evacuation

Risk Assessment

options and included an inventory of private roads and potential egress routes would be highly beneficial for the region.

VI. Electoral Area L shares its southern border with the Thompson-Nicola Regional District (TNRD), with number of communities and access routes lying near or crossing this border. Clear communication and coordination between the CRD and TNRD is essential for effective and efficient cross-jurisdictional emergency management and to relay consistent messaging and direction to border residents.

Note: The below action items and associated timelines, priority rankings, and metrics for success are RECOMMENDATIONS ONLY based on findings and information gathered during the development of this CWRP. The CRD reserves the right to choose to implement action items as they see fit in whatever order and timeframe they deem is appropriate and achievable. Recommended timeframes have been developed within a 5-year timeline to align with the general lifespan of the CWRP but in reality, may take longer to implement. Many of the recommended action items within this CWRP and associated Action Plan are fundable under the provincial Community Resiliency Investment (CRI) program during the time of development. However, eligible activities under the program are subject to change annually.

CRD Electoral Area L CWRP Action Plan						
Action	Lead(s)	Priority	Timeframe	Resources Required	Metric for Success	Rationale/Notes
Education						
1. Read and understand this CWRP's identified risks and recommended actions.	Emergency Program Coordinator and staff, FireSmart Coordinator	Very High	Immediate	A completed and comprehensive CWRP	Clear understanding of actions required over the next 5 years to further enhance community wildfire resiliency by CRD staff	The CWRP acts as the roadmap for developing and enhancing wildfire resiliency within communities. It is designed to last approximately 5 years, upon which reassessment of status and progress is required
2. Develop a FireSmart public communication plan/strategy to effectively plan and monitor annual FireSmart educational strategies and activities for the entirety of the CRD.	Emergency Program Coordinator and staff, FireSmart Coordinator, Communications staff	Very High	Immediate and ongoing	Communications and planning resources	Development of an annual communications plan that clearly outlines FireSmart education objectives and targets tailored for each CRD Electoral Area and its residents.	A public communications plan/strategy can help clarify and set goals, objectives, and measurable targets. It also allows for successful tracking and adaptive management to improve activities that do not meet objectives or targets.
3. Continue to employ a full-time FireSmart Coordinator. This position runs all aspects of the FireSmart program and generally is in charge of actioning many aspects of this CWRP.	Protective Services	Very High	Ongoing	An annual salary for the position and appropriate training and orientation. This can be covered through grant funding	Successfully retain at least one individual in the FireSmart position who is enthusiastic about promoting FireSmart.	A FireSmart Coordinator will be required to receive CRI funding beginning in 2024. Funding is currently available under the CRI program to support a salary for a FireSmart Coordinator, Local FireSmart Representative, Wildfire Mitigation Specialist, or Wildfire Forest Professional

CRD Electoral Area L CWRP Action Plan						
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4. Continue to organize and hold a variety of FireSmart events throughout the CRD. Event types include but are not limited to a Wildfire Community Preparedness Day, Farm and Ranch Wildfire Preparedness Workshop, Neighbourhood Champion workshop, or Fire Hall open house.	FireSmart Coordinator	Very High	Annually, ideally between the months of May and October	Communication and public outreach resources such as social media, webpage postings, posters, etc. Resources to run the event such as tent, food, staff/volunteers, FireSmart promotional materials.	Hold a minimum of one type of FireSmart event per year in each Electoral Area.	Funding is currently available through the CRI program to organize, host or support FireSmart events.
5. Continue to encourage and promote residents to have a Local FireSmart Representative (LFR) complete a FireSmart Home Ignition Zone (HIZ) Assessment or Farm and Ranch Assessment for their home/property. Based on the outcome of the Assessments, encourage property owners to implement as many mitigation activities as possible.	FireSmart Coordinator	Very High	Ongoing	FireSmart Coordinator, Local FireSmart Representative, Neighbourhood Champion, or other qualified staff to complete the Home Ignition Assessment	Residents within the CRD continue to request FireSmart HIZ Assessments be completed for their home/property. Set reasonable targets for number of completed assessments based on interest in previous years.	The most successful component of the CRD's FireSmart Education Program to date has been requests by residents for completion of a FireSmart HIZ Assessment. Overall, interactions during the FireSmart HIZ Assessments have been positive learning opportunities for residents. Residents are also offered the option to have a follow up FireSmart Assessment completed after they have implemented recommendations; however, no follow up assessments have been requested to date. Therefore, the status of implementation of FireSmart activities on private properties is unknown.

CRD Electoral Area L CWRP Action Plan						
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						Funding is currently available through the CRI program to have LFRs complete FireSmart HIZ Assessments, as well as Farm and Ranch Assessments for property owners.
6. Promote and encourage all agricultural/ farm/ranch landowners to develop a Farm/Ranch Wildfire Preparedness Plan for their properties. These Wildfire Plans will allow farmers/ranchers to be better prepared to take effective action during wildfires, identify risk reduction priorities to complete such as removing fuels or setting up sprinklers, and share important information with those involved in wildfire response, such as the BCWS.	FireSmart Coordinator	Very High	Immediate and ongoing	Communication and education resources	Utilize various communication avenues to educate farm/ranch landowners about the benefit of the Preparedness Plans	A large portion of CRD residents are rural ranch/farm owners. Resources relating to the Farm & Ranch Wildfire Preparedness Plan are currently available on the CRD website. The BC Climate Change Adaptation Program has developed a guide and fillable workbook to assist landowners/producers with completing the Farm/Ranch Wildfire Plans. Both are available for download on the FireSmart BC website ¹
7. Develop and offer a local FireSmart Rebate Program to residential property or homeowners that complete eligible FireSmart activities from their FireSmart HIZ Assessment.	FireSmart Coordinator	Very High	Within 5 years (2030)	Program development and communication resources	Residents are aware of the FireSmart Rebate program and are actively taking part in implementing eligible FireSmart	Funding is currently available through the CRI program to support rebate programs. As of 2025, rebates are limited to 50% of the total cost of the eligible activities identified in the CRI Program Guide and up to \$5,000 per property. Rebate

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This provides incentive and assists with the financial barriers of implementing FireSmart activities on private land.					activities and applying for rebates upon completion	programs can be highly effective in aiding with the financial costs of FireSmart activities.
8. Continue to waive tipping fees for residential, FireSmart generated wood waste. Consider organizing Community Chipper Days/Community Waste Disposal/ Bin Days for residents, particularly those that may have difficulty accessing the landfill (e.g. vulnerable populations). This will encourage and aid residents with removal of hazardous vegetation and debris around their homes.	FireSmart Coordinator, Manager of Solid Waste	High	Annually	Chipper, waste management staff or contractors	Maintain opportunity for free drop off of residential FireSmart generated wood waste at all CRD refuse sites within each Electoral Area. Removal of hazardous debris, vegetation, invasive plants and other flammable materials around homes is completed on an annual basis.	<p>Continue to provide free drop off (no tipping fees) of residential, FireSmart generated wood waste at CRD refuse sites. This service is available for wood waste generated from private residences only, within the CRD and will not include wood waste from provincial lands or areas identified for treatment within this CWRP.</p> <p>Explore opportunities to offer community “bin days” (or a similar type of program) to assist residents, particularly those lacking physical capacity, with removal of high-risk vegetation and debris from their properties, around homes and other structures.</p> <p>Funding is available through the CRI program to provide off-site vegetative debris disposal for residential properties who have undertaken their own residential-scale FireSmart vegetation management, including:</p>

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						<ul style="list-style-type: none"> Provide a dumpster, chipper or other collection method, Waive tipping fees.
9. Inform communities of upcoming FireSmart events and other fire/emergency management related updates via a variety of communication platforms including social media groups, the CRD website, posters, community and school newsletters, etc.	FireSmart Coordinator, CRD Communications Staff	High	Ongoing	Communication resources	FireSmart resources are available in multiple locations and platforms to reach a wide variety of residents. FireSmart events are well advertised and attended.	Public outreach and information sharing needs to occur on a variety of platforms to capture residents of all demographics.
10. Promote and encourage neighbourhoods to work together to implement FireSmart activities at a neighbourhood level and apply for the FireSmart Canada's Neighbourhood Recognition Program. Once recognized, annually renew for FireSmart Recognition is required.	FireSmart Coordinator	Moderate	Within 5 years (2030), then Annually	A certified Local FireSmart Representative or Neighbourhood Champion to complete Neighbourhood Wildfire Hazard Assessments	Work to recruit Neighbourhood FireSmart Champions in isolated communities to lead and organize FireSmart initiatives. At least one community/neighbourhood achieves FireSmart Neighbourhood Recognition by the end of 2028	<p>Application to be filled out and required actions for recognition must be completed².</p> <p>Funding is available through the CRI program to complete Neighbourhood Wildfire Hazard Assessments and FireSmart Neighbourhood Plans.</p>

CRD Electoral Area L CWRP Action Plan						
Action	Lead(s)	Priority	Timeframe	Resources Required	Metric for Success	Rationale/Notes
11. Work with School Division 27 to incorporate the FireSmart BC Education Program ³ at local schools. This includes promotional materials for contests, banners, and targeted education events at schools to promote the education program curriculum.	FireSmart Coordinator	Moderate	Within 3 years (2028)	FireSmart BC Curriculum, support from School Division 27 and local schools	The FireSmart BC Education Program is adopted into schools where deemed appropriate.	<p>Efforts have been made by the CRD FireSmart Coordinator to increase engagement and interest among youth and working age class residents. This includes creating fun and interactive displays for the FireSmart booth, handing out children's FireSmart promotional items, attending the Children's Festival, and implementing a FireSmart library program. The CRD should continue to support the FireSmart BC Library Program and complement it with the FireSmart BC Education Program.</p> <p>Funding is currently available through CRI to support schools with the FireSmart BC Education Program.</p>
12. Distribute Educational Materials to the public to support the development of prescribed fire and cultural burning programs	FireSmart Coordinator, Regional Fire Chief, First Nations Partners	Low	Within 5 years (2030)	BCWS support and educational resources, First Nations involvement, Program development and communication resources	Develop and distribute educational resources to residents describing the benefits of returning fire to the landscape	<p>Over 30% of Electoral Area L falls within a Natural Disturbance Type (NDT) 4 zone, characterized by frequent stand-maintaining events. In addition, the NDT 4 areas are all comprised of Interior Douglas-fir Biogeoclimatic zones where the stand-maintaining event is most often fire and coincides with a large portion of the WUI. Given the high dependency of fire to maintain these ecosystems, it is important to build</p>

CRD Electoral Area L CWRP Action Plan						
Action	Lead(s)	Priority	Timeframe	Resources Required	Metric for Success	Rationale/Notes
						educational capacity to describe how controlled fires can help reduce the frequency of out-of-control wildfires and restore and maintain natural habitats and cultural practices, with the ultimate goal of developing prescribed fire and cultural burning programs. Funding is currently available through the CRI program for targeted public education to support implementation of fuel management activities, including cultural burning and prescribed fire.
Legislation and Planning						
13. Ensure that going forward, planning and development throughout the CRD considers wildfire risk in all aspects. This includes ensuring all local emergency and development plans and bylaws are developed, updated, or amended to align with wildfire risk reduction and FireSmart principles.	Manager of Planning Services	Very High	Immediate and ongoing	Communication resources, internal staff capacity, FireSmart and wildfire risk reduction guidance	All CRD plans and policies incorporate wildfire risk at multiple levels and bylaws are developed/amended to reflect higher-level goals and objectives	High density lake communities in Electoral Area L are of high concern for emergency evacuation in the event of a wildfire. Wildfire hazard planning and development requirements are not consistently applied across all rural communities within the CRD.

CRD Electoral Area L CWRP Action Plan						
Action	Lead(s)	Priority	Timeframe	Resources Required	Metric for Success	Rationale/Notes
<p>14. Amend the Interlakes Area OCP to include specific sections pertaining to wildfire policies and objectives, and consider including the following:</p> <ul style="list-style-type: none"> I. Establish specific objectives and policies within the OCP pertaining to wildfire hazard. II. Establish Wildfire Hazard Development Permit Areas that may require development permit approval based on FireSmart guidelines. Consider writing into bylaw to integrate wildfire hazard mitigation into regulatory planning processes. III. Mapping of spatially delineated areas identifying moderate, high and extreme wildfire hazard within the WUI. IV. Include FireSmart design requirements for single building development within the WUI. 	Manager of Planning Services, Regional Fire Chief, FireSmart Coordinator	Very High	Within 5 years (2030)	Communication resources, internal staff capacity, FireSmart and wildfire risk reduction guidance, expertise required for mapping wildfire hazard	The Interlakes Area OCP is updated/ amended to better include wildfire hazard and land ownership, and FireSmart requirements for various types of development are strengthened.	<p>Wildfire policies and objectives within the Interlakes Area OCP refer to the Development Approval Information Bylaw. However, there is opportunity to include and strengthen the wildfire hazard objectives by including wildfire hazard and land ownership mapping, Wildfire Hazard DPAs, and FireSmart requirements within the WUI for single and multi-building development.</p> <p>Funding is currently available through the CRI program to amend Official Community Plans, Comprehensive Community Plans and/or land use, engineering and public works bylaws to incorporate FireSmart principles</p>

CRD Electoral Area L CWRP Action Plan						
Action	Lead(s)	Priority	Timeframe	Resources Required	Metric for Success	Rationale/Notes
<p>15. Amend the South Cariboo Area OCP sections pertaining to wildfire policies and objectives, and consider including the following:</p> <p>I. Establish Wildfire Development Permit Areas that may require development permit approval based on FireSmart guidelines. Consider writing into bylaw to integrate wildfire hazard mitigation into regulatory planning processes</p> <p>II. Mapping of spatially delineated areas identifying moderate, high and extreme wildfire hazard within the WUI.</p> <p>III. Include FireSmart design requirements for single building development within the WUI.</p>	Manager of Planning Services, Regional Fire Chief, FireSmart Coordinator	High	Within 5 years (2030)	Communication resources, internal staff capacity, FireSmart and wildfire risk reduction guidance, expertise required for mapping wildfire hazard	The South Cariboo Area OCP is amended to allow for the establishment of Wildfire Hazard Development Permit Areas, wildfire hazard is spatially delineated, and FireSmart requirements for various types of development are strengthened.	<p>Wildfire policies and objectives are currently part of the South Cariboo Area OCP. However, the OCP currently does not contain maps spatially delineating the wildfire hazard areas and does not officially establish Development Permit Areas for wildfire hazard. Additionally, there are no policies pertaining to wildfire hazard or FireSmart requirements for development of less than three parcels/ lots.</p> <p>Funding is currently available through the CRI program to amend Official Community Plans, Comprehensive Community Plans and/or land use, engineering and public works bylaws to incorporate FireSmart principles</p>
16. Amend the Green Lake Area OCP sections pertaining to wildfire policies and	Manager of Planning Services,	High	Within 5 years (2030)	Communication resources, internal staff capacity,	The Green Lake Area OCP is updated/ amended to include	Wildfire policies and objectives are currently part of the Green Lake Area OCP. However, the OCP does not contain

CRD Electoral Area L CWRP Action Plan						
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I. objectives and consider including the following: Establish Wildfire Development Permit Areas that may require development permit approval based on FireSmart guidelines. Consider writing into bylaw to integrate wildfire hazard mitigation into regulatory planning processes II. Update mapping of areas identifying moderate, high and extreme wildfire hazard within the WUI. III. Include FireSmart design requirements for single building development within the WUI.	Regional Fire Chief, FireSmart Coordinator			FireSmart and wildfire risk reduction guidance, expertise required for mapping wildfire hazard	Wildfire Hazard DPAs and better reflect current wildfire hazard and land ownership, as well as FireSmart requirements for various types of development are strengthened.	Wildfire Hazard Development Permit Areas, and the wildfire hazard and land ownership mapping is out of date. Additionally, there are no requirements for FireSmart during development of less than four parcels, only language <i>encouraging</i> FireSmart, which should be strengthened to ensure all development within a wildfire hazard area is completed to FireSmart standards. Funding is currently available through the CRI program to amend Official Community Plans, Comprehensive Community Plans and/or land use, engineering and public works bylaws to incorporate FireSmart principles
17. To assist the CRD in covering Wildfire Hazard DPA administrative permitting costs, update Development Procedures and Fees Bylaw 5458 to:	Manager of Planning Services; planning staff	High	2 years (2027)	Staff time for internal meetings, preparation of the bylaw update, and presentation to Board of Directors for approval	The Manager of Planning Services deems that updated Development Procedures and Fees Bylaw 5458 accurately reflects CRD costs	To account for the realistic costs shouldered by the CRD to manage the effective implementation and ongoing management of a wildfire hazard development permit area to mitigate the impact of wildfire as a natural hazardous condition

CRD Electoral Area L CWRP Action Plan						
Action	Lead(s)	Priority	Timeframe	Resources Required	Metric for Success	Rationale/Notes
i. include 'wildfire hazard' as item (e) in Section 4; and part of the list in Section 8(c); ii. set fees for the processing and approval of wildfire hazard assessment and post-development inspection reports; and iii. stipulate the amount of holdback monies held by the CRD to be released upon compliance					related to processing development and building permit application	
Development Considerations						
18. Complete FireSmart Critical Infrastructure Assessments on all CRD owned Critical Infrastructure (CI) within Electoral Area L, such as the Interlakes Fire Halls, transfer stations/landfills and water/sewer systems.	FireSmart Coordinator	Very High	Immediately	Qualified LFR or similar to complete the FireSmart Assessments	FireSmart CI Assessments have been completed on highest priority CI by 2027	Funding is currently available through the CRI program to complete FireSmart assessments for publicly owned buildings, critical infrastructure, culturally significant sites and/or green spaces.
19. Once a FireSmart Critical Infrastructure Assessment has been completed,	FireSmart Coordinator, Manager of	High	Within 5 years (2030)	Labour, machinery, construction materials	FireSmart recommendations have been	Funding is currently available through the CRI program to complete mitigation

CRD Electoral Area L CWRP Action Plan						
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implement FireSmart recommendations and mitigation activities resulting from the completed Assessments with the goal of reducing hazard scores as much as feasibly possible.	applicable department for CI				implemented for a minimum of two CI located within Electoral Area L by 2030.	activities on assessed structures, including building materials and labour.
20. Consider amending the <i>South Cariboo Area Rural Land Use Bylaw No. 3501</i> to include land use and development objectives, policies, and/or regulations pertaining to wildfire hazard for various types of development. Examples include: I. FireSmart performance-based exterior “finish/design” and/or landscaping requirements for residential building development in rural and/or settlement areas, such as exterior	Manager of Planning Services	High	Within 5 years (2030)	Communication resources, internal staff capacity, FireSmart and wildfire risk reduction guidance, expertise required for mapping wildfire hazard	The RLUB is amended to incorporate appropriate objectives, policies, regulations or provisions pertaining to land use and development and the wildfire environment	<p>The South Cariboo Area Rural Land Use Bylaw No. 3501 (RLUB) provides objectives, policies, regulations and provisions respecting land use and development in the areas of Electoral Area G, H, and L not covered under an OCP. The current RLUB does not identify or contain objectives, policies or regulations relating to wildfire hazard in land use or development planning for rural areas.</p> <p>Funding is currently available through the CRI program to establish Development Permit Areas for Wildfire Hazard and incorporate FireSmart principles.</p>

CRD Electoral Area L CWRP Action Plan						
Action	Lead(s)	Priority	Timeframe	Resources Required	Metric for Success	Rationale/Notes
<ul style="list-style-type: none"> materials, sprinkler protection systems, etc. II. Development setback provisions and regulations pertaining to forested areas in rural and/or settlement areas. 						
<ul style="list-style-type: none"> 21. Revise the Development Permit application and approval process to ensure the following: <ul style="list-style-type: none"> I. Bolster language within the <i>Development Approval Information Bylaw 5008</i> pertaining to wildfire hazard assessment reports. II. clearly stipulate guidelines or requirements for development approval such as creating FireSmart development guidelines, or creating a terms of reference to ensure standards for wildfire hazard 	Manager of Planning Services	High	Within 5 years (2030)	Internal staff capacity	<p>The Development Permit application and approval process is amended to ensure that wildfire is being considered into all types of planning and development throughout the CRD.</p>	<p>Funding is currently available through CRI Program to amend requirements for zoning and development permits, including referral processes for new developments to ensure multiple departments, including the fire department and/or emergency management personnel, are included.</p>

CRD Electoral Area L CWRP Action Plan						
Action	Lead(s)	Priority	Timeframe	Resources Required	Metric for Success	Rationale/Notes
assessment reports required for new development.						
Interagency Cooperation						
22. Integrate CRD participation in the 100 Mile House & Area Community FireSmart and Resiliency Collaborative (CFRC) in conjunction with the District of 100 Mile House and applicable partners to work towards effective emergency planning, vegetation/fuel management, and communication protocols for the South Cariboo Area.	Manager of Emergency Program Services, FireSmart Coordinator	Very High	Ongoing	Communication and organizational resources, meeting space	Attend a minimum of one meeting per year	The District of 100 Mile House established its CFRC in February 2025. Funding is available through the CRI program to support participation in and organization of interagency meetings
23. Participate in an integrated fuel management / prescribed fire planning table in collaboration with representatives from the Ministry of Forests Cariboo-Chilcotin District, BC Wildfire Service Cariboo Fire Centre, local First Nations, municipal	CRD FireSmart Coordinator	Very High	Immediate and ongoing	Communication and organizational resources, meeting space.	Collaborative efforts are made to discuss and support the integration of fuel management planning across jurisdictional boundaries. This could include the development of a 5-	The proposed fuel management units within this CWRP are located on provincial crown land. Collaboration with other land managers is integral to effective implementation of fuel treatments on identified public forested areas.

CRD Electoral Area L CWRP Action Plan						
Action	Lead(s)	Priority	Timeframe	Resources Required	Metric for Success	Rationale/Notes
governments (Williams Lake, Quesnel, 100 Mile House), BC Parks, and local forest licensees (First Nations Woodland License, Community Forest, and Woodlot License tenure holders).					year plan for fuel management through a variety of funding sources throughout the Cariboo.	Funding is currently available through the CRI Program to support meeting costs.
24. Provide Indigenous cultural safety and humility training to emergency management personnel in order to more effectively partner with, and provide assistance to, Indigenous communities for both wildfire prevention and suppression.	Manager of Intergovernmental Relations	Very High	Immediate and ongoing	Communication and organizational resources, meeting space.	Develop training and educational materials in collaboration with First Nations that identify cultural sensitivities and considerations for effective and respectful emergency management coordination and distribute training materials and/or deliver presentations to staff.	Funding is currently available through the CRI Program to support Indigenous cultural safety and humility training to emergency management personnel
25. Send staff from the CRD Emergency Program Services, Protective Services,	Manager of Emergency Program Services	Moderate	Annually	CRI funding for attendance and disbursements. Eg:	A minimum of two CRD staff attend the Wildfire Resiliency and	Funding is currently available through the CRI program to send up to 4 staff per eligible applicant. Eligible costs include

CRD Electoral Area L CWRP Action Plan						
Action	Lead(s)	Priority	Timeframe	Resources Required	Metric for Success	Rationale/Notes
or other relevant local government departments to attend the annual <i>Wildfire Resiliency and Training Summit</i> .				Transportation and travel costs	Training Summit each year	conference fee and travel (including accommodation and per diems). Staff wages and costs related to back-filling positions are not eligible for funding.
Cross-Training						
26. Provide cross-training opportunities to CRD Emergency Program Services and Protective Services staff, and other applicable personnel to further build capacity and redundancy within and between departments. Examples of cross training courses include: <ul style="list-style-type: none"> i. Local FireSmart Representative (LFR) training ii. FireSmart BC Farm and Ranch training (required in order to conduct Farm and Ranch Assessments) 	Manager of Emergency Program Services, Manager of Protective Services	High	As required based on needs of staff	CRI Funding and enrollment in training courses	Redundancy of all critical skills relating to FireSmart and Emergency Management within the CRD Emergency Program and Protective Services and other applicable departments	Funding for cross-training courses for Emergency Management staff is currently available through the CRI program

CRD Electoral Area L CWRP Action Plan						
Action	Lead(s)	Priority	Timeframe	Resources Required	Metric for Success	Rationale/Notes
iii. EMRG-100 - Introduction to Emergency Management in Canada iv. ICS-100 - Incident Command System						
27. Provide ongoing cross-training opportunities for local firefighters in the CRD Volunteer Fire Departments, including the Lone Butte, Interlakes, and Deka Lake VFDs. Examples of wildfire suppression training courses include: i. S-100 – Basic fire suppression and Safety ii. S-185 – Fire entrapment avoidance and safety iii. ICS-100 – Incident Command System introduction iv. SPP-WFF1 Wildland Firefighter Level 1 (includes S-100, S-185, ICS-100)	Regional Fire Chief	Moderate	Annually	Facility to hold the training, potentially some basic suppression equipment and facility to hold training	Successfully hold at least one wildfire suppression training course for local structural firefighters. This could include firefighters from multiple Fire Departments across Electoral Areas.	Funding for cross-training courses for fire fighters is currently available through CRI program

CRD Electoral Area L CWRP Action Plan						
Action	Lead(s)	Priority	Timeframe	Resources Required	Metric for Success	Rationale/Notes
v. WSPP-115 - Wildland Structure Protection Program (training for structure protection unit crews)						
28. Identify if there are any established volunteer fire fighters within the CRD who have a strong interest in training to become prescribed fire practitioners. Courses and training have become available for skilled fire practitioners to expand their skills and knowledge towards becoming conversant in the use of prescribed fire for ecological restoration and wildfire prevention.	Regional Fire Chief	Low	Immediately and ongoing	Skilled practitioners, approval from the local BC Wildfire Service Wildfire Prevention Officer or Prevention Specialist	Skilled practitioners, such as volunteer fire fighters, show interest in working towards developing prescribed burning skills and knowledge.	Prescribed fire is the planned and intentional use of fire on a specific land area. It is one of the most ecologically appropriate means for achieving a range of objectives including reducing the potential for large, intense wildfires. The BC Wildfire Service's Prescribed Fire program recognizes the need to build capacity and increase the number of skilled practitioners to undertake prescribed burning.
Emergency Planning						
29. Update the CRD Emergency Plan to reflect updated emergency legislation, area demographics, and emergency planning from	Emergency Program Services Manager	Very High	Within 5 years (2030)	Communication resources, internal staff capacity, emergency	An updated comprehensive emergency management plan for	The CRD is currently waiting for the finalization of the new <i>Emergency and Disaster Management Act (EDMA)</i> regulations before completing necessary updates to their Emergency Plan. The

CRD Electoral Area L CWRP Action Plan						
Action	Lead(s)	Priority	Timeframe	Resources Required	Metric for Success	Rationale/Notes
neighbouring First Nations and local governments.				management guidance	the CRD is completed by 2030.	CRD has taken steps to further engage with First Nations regarding emergency planning.
30. Ensure strong emergency communication strategies are developed and maintained between the CRD and local First Nations, including the Stswecem'c Xget'tem and Tsq̓escen Nations, with traditional lands within Electoral Area L. This includes maintaining living databases of appropriate contacts within each Nation. Nations should be contacted regarding emergency wildfire events occurring on their traditional territory. This will ensure the Nation is informed and involved in emergency planning and response as it relates to their members, lands, and values.	Emergency Program Services Manager, Manager of Intergovernmental Relations	Very High	Immediate and ongoing	Communication resources and relationship building, internal capacity to maintain contact databases	Strong communication and working relationships are built and maintained between the CRD and First Nations within the Cariboo Region to ensure human life and safety, and values on the landscape are protected.	During interviews with local Indigenous Government staff, many Nations, including Tsq̓escen and Stswecem'c Xget'tem expressed the importance of being notified immediately during wildfire events and involved in decision making regarding emergency response on their territory.

CRD Electoral Area L CWRP Action Plan						
Action	Lead(s)	Priority	Timeframe	Resources Required	Metric for Success	Rationale/Notes
<p>31. During emergency planning the number of residents throughout Electoral Area L that may be more vulnerable or at higher risk during an emergency evacuation event due to factors such as:</p> <ul style="list-style-type: none"> i. Unreliable cell phone coverage or internet bandwidth resulting in delayed or unsuccessful communication, ii. Residents who are elderly, have limited mobility, or may require additional support during an evacuation. 	Emergency Program Services Manager, Manager of Protective Services	Very High	Immediate and ongoing	Census data	Vulnerable person are considered during emergency planning	Consideration of persons with vulnerabilities during emergency planning can help inform targeted wildfire mitigation and emergency planning activities needed to assist more vulnerable populations. Funding is available under the CRI program to undertake eligible residential mitigation work for seniors, elders, people with limited mobility or vulnerable populations.
<p>32. Apply for UBCM's <i>Public Notification and Evacuation Route Planning</i> funding stream and assess areas throughout the Cariboo Region that are particularly vulnerable due to isolation, limited evacuation routes, etc. Develop a comprehensive evacuation</p>	Emergency Program Services Manager	High	Within 5 years (2030)	UBCM funding, internal staff capacity, mapping and spatial data analysis	Evacuation route planning completed for Electoral Area L where warranted.	The intent of this UBCM funding stream is to support eligible applicants to develop Evacuation Route Plans and/or Public Notification Plans that provide information for First Nations, local governments, and community members in the event of an emergency.

CRD Electoral Area L CWRP Action Plan						
Action	Lead(s)	Priority	Timeframe	Resources Required	Metric for Success	Rationale/Notes
plan that thoroughly considers evacuation options and includes an inventory of private roads and potential egress routes.						
33. Promote and encourage all Electoral Area L residents to subscribe to the CRD's emergency public notification system, VoyentAlert! Emergency notifications can be delivered via email or phone. These notifications are critical to ensuring residents are receiving the same important information regarding emergencies impacting their area.	Emergency Program Services Manager, FireSmart Coordinator	High	Immediate and ongoing	Communication resources	Develop a subscription tracking system with the goal to increase VoyentAlert! subscription rates by 10% annually.	The current subscription rate for VoyentAlert! within the Cariboo region (this includes municipalities, as well as First Nations reserves) is approximately 40% of the population.
34. Organize and/or participate in cross-jurisdictional meetings, tabletop exercises, or mock scenarios specifically focused on wildfire preparedness in the Central Cariboo Region. This	Emergency Program Services Manager	High	Annually	Communication and planning resources, facility and funds to hold meeting/exercise	A minimum of one cross-jurisdictional meeting/tabletop exercise/mock scenario is held per year	Funding to hold wildfire preparedness meetings/exercises is currently available through the CRI program.

CRD Electoral Area L CWRP Action Plan						
Action	Lead(s)	Priority	Timeframe	Resources Required	Metric for Success	Rationale/Notes
should occur in collaboration with emergency management staff from local First Nations and neighbouring municipal governments. For Electoral Area L, this includes Tsq̓es̓cen and Stswecem'c Xget'tem First Nations and the District of 100 Mile House.						
35. Assess and inventory FireSmart Structure Protection equipment located within the Interlakes, Lone Butte, and Deka Lake Fire Departments. It is recommended that Fire Departments have functioning Structure Protection Trailers, where feasible. Apply for funding to purchase any missing equipment to complete a fully stocked Structure Protection Unit.	Regional Fire Chief	Moderate	Complete inventory assessment by fall 2026. Equipment need purchases should be fulfilled as soon as possible	Suitable space to store the trailer and equipment, trained response crew to employ Structure Protection Equipment/Trailer	At least one of the CRD Volunteer Fire Department owns one full Structure Protection Trailer within 5 years.	Funding is currently available through the CRI program to purchase FireSmart Structure Protection equipment. The equipment is funded in four phases for a complete Structure Protection Trailer. Additionally, training is available for structural fire fighters for utilization of Structure Protection Equipment/Trailers

CRD Electoral Area L CWRP Action Plan						
Action	Lead(s)	Priority	Timeframe	Resources Required	Metric for Success	Rationale/Notes
36. Continue with the Operational Community Liaison Program through the CRD's Emergency Operations Centre.	Manager of Emergency Program Services	Moderate	Ongoing	Public communications, community members interested in acting as OCLs	Community members as informed about the OCL Program and interested in becoming Liaisons. This is particularly important for communities not covered under a Fire Protection Area.	The Operational Community Liaison (OCL) Program ensures clear and efficient communication between the Emergency Operations Centre and the local communities during emergencies. OCLs will help the EOC understand local needs and conditions. The OCL acts as a bridge between the community and the EOC, offering vital support, local knowledge, and understanding of community conditions to enhance decision-making, and emergency response and recovery efforts
37. Assess community water delivery ability as required for suppression activities, limited to current water system evaluation and available flow analysis. Options for water storage and supply options, such as a dry hydrant system, should be considered.	Manager of Protective Services, Manager of Utilities	Moderate	Within 4 years (2029)	Water assessment and analysis services	Water availability assessments are completed for communities in Electoral Area L	Given the continued growth and density of residents within many Electoral Area L communities, it is important to consider potential strain on the public services and resources capacities, including water availability for suppression. Funding is currently available through the CRI program to complete water availability assessments.
Vegetation Management						
38. Encourage residents to remove/reduce flammable	FireSmart Coordinator	Very High	Immediate and ongoing	Communication and educational resources	Residents begin to show interest in	Utilize the funding available through the CRI program for the FireSmart Rebate

CRD Electoral Area L CWRP Action Plan						
Action	Lead(s)	Priority	Timeframe	Resources Required	Metric for Success	Rationale/Notes
<p>vegetation in the Immediate, Intermediate, and Extended zones on their properties.</p> <p>Promote the use of the <i>FireSmart BC Landscaping Guide</i> to inform vegetation management best practices and replace flammable vegetation with more fire-resistant landscaping.</p>					FireSmart landscaping and actively removing flammable vegetation nearest to homes and structures on their property.	Program and provide off-site vegetative debris disposal for property owners who have undertaken their own vegetation management in the Home Ignition Zone.
<p>39. Apply for funding to develop fuel management prescriptions for forested areas identified on provincial crown land within the eligible WUIs. It is recommended to start with Priority 1 proposed fuel treatment areas as identified within this CWRP.</p> <p>NOTE: This must occur in collaboration with the Ministry of Forests, First Nations, BC Parks, and other applicable land managers (100 Mile Community Forest). Fuel treatment areas</p>	FireSmart Coordinator	High	Annually, ongoing	A Registered Professional Forester is required to write all fuel management prescriptions	<p>A minimum of 3-4 fuel management prescriptions are developed for an identified fuel treatment area within the Regional District each year. This target is Regional District wide</p>	<p>Funding is available through the CRI program for fuel management prescription development</p>

CRD Electoral Area L CWRP Action Plan						
Action	Lead(s)	Priority	Timeframe	Resources Required	Metric for Success	Rationale/Notes
should be planned as part of the integrated fuel management / prescribed fire planning table.						
40. Apply for funding to undertake fuel management treatment operations on provincial crown land within the eligible WUIs based on completed fuel management prescription units. NOTE: This must occur in collaboration with the Ministry of Forests, First Nations, BC Parks, and other applicable land managers (100 Mile Community Forest). Fuel treatment units should be implemented as part of the integrated fuel management / prescribed fire planning table.	FireSmart Coordinator	High	Every 1-2 years, ongoing	Contractors must be acquired to complete treatment operations	After the fuel management prescription phase is completed, at least 2-3 fuel management treatments are operationally completed for an identified area in the Regional District every 1-2 years. This target is Regional District wide	Funding is available through the CRI program for fuel management treatment operations/ Implementation
41. Create a public database of skilled practitioners, crews, and/or contractors that can provide vegetation	FireSmart Coordinator	Moderate	Immediate and ongoing	Database development and updating/ maintenance,	A database of local skilled/qualified practitioners, crews, contractors, etc. is	During public engagement open houses, members of the public expressed frustration with the perceived lack of capacity for completing and

CRD Electoral Area L CWRP Action Plan						
Action	Lead(s)	Priority	Timeframe	Resources Required	Metric for Success	Rationale/Notes
management or construction services for private landowners wanting to complete vegetation management, landscaping, or other FireSmart activities on their homes/properties. Share this database on the CRD website.				communication resources	developed and made available to the public.	implementing vegetation management and other FireSmart activities on their properties/homes. A running public database that lists local contractors or practitioners that are skilled/qualified in vegetation management, landscaping, construction, etc. would help connect CRD residents with local skills and services.

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Frequently Used Acronyms

AOI	Area of Interest
AOP	Annual Operating Plan
BCBC	British Columbia Building Code
BC	British Columbia
BCWS	British Columbia Wildfire Service
BEC	Biogeoclimatic Ecosystem Classification
CFFDRS	Canadian Forest Fire Danger Rating System
CFRC	Community FireSmart Resiliency Collaborative
CI	Critical infrastructure
CLWRR	Crown Land Wildfire Risk Reduction
CIFFC	Canadian Interagency Forest Fire Centre
CRI	Community Resiliency Investment
CWRP	Community Wildfire Resiliency Plans
DP	Development Permit
DPA	Development Permit Area
EMCR	Emergency Management and Climate Readiness
EMP	Emergency Management Plan
EPA	Emergency Program Act
FBP	Fire Behaviour Prediction System
FCFS	FireSmart Community Funding and Supports
FESBC	Forest Enhancement Society of British Columbia
FMP	Fire Management Plan
FNESS	First Nations Emergency Services Society
FRPA	Forest & Range Practices Act
GIS	Geographic Information Systems
FSCCR	FireSmart Canada Community Recognition Program
HIZ	Home Ignition Zone
HVRA	Hazard, Risk, and Vulnerability Analysis
LRMP	Land and Resource Management Plan

MOF	Ministry of Forests
MOTT	Ministry of Transportation and Transit
PSOE	Provincial State of Emergency
PSTA	Provincial Strategic Threat Assessment
OCP	Official Community Plan
OFC	Office of the Fire Commissioner
RSWAP	Resource Sharing Wildfire Allocation Protocol
SARA	Species at Risk Act
SOLE	State of Local Emergency
SPU	Structure Protection Units
UBCM	Union of British Columbia Municipalities
VAR	Values at Risk
WRR	Wildfire Risk Reduction
WUI	Wildland-Urban Interface

1.0 Introduction

Wildfire is a natural disturbance agent on the landscape, but with warming temperatures and changing precipitation regimes due to climate change, British Columbia is experiencing a sustained increase in wildfire behaviour and events, particularly in the wildland urban interface.³ The notable wildfire seasons of 2017, 2018, 2021, and 2023, and 2024 highlight the potential impacts wildfire activity can have on communities. Specific to the area of interest (Electoral Area L), the fires of 2017 including the Gustafsen fire, directly northwest of 100 Mile House and the Elephant Hill fire that began just outside of Ashcroft and covered significant ground to reach the southern edge of Sheridan Lake, as well as the Flat Lake fire of 2021, southwest of 100 Mile House. All resulted in numerous evacuation alerts and orders across the entire electoral area.

In response to these events, a Community Wildfire Resiliency Plan (CWRP) has been developed for each of the electoral areas within Central and South zones of the Cariboo Regional District (CRD), including electoral areas D, E, F, G, H and L. Developed by Forsite Consultants Ltd. (Forsite), this plan provides a comprehensive and holistic approach to wildfire risk reduction and resilience for Electoral Area L.

The CWRP addresses the seven FireSmart Disciplines of FireSmart Canada and applies them to the various aspects of wildfire risk reduction and management. The seven FireSmart disciplines/principles include:

1. Education
2. Legislation and Planning
3. Development Considerations
4. Interagency Cooperation
5. Cross-training
6. Emergency Planning
7. Vegetation Management

1.1 Plan Goals

The purpose of the CRD Electoral Area L CWRP is to identify and assess wildfire hazards within and around the communities of Electoral Area L including Imperial Ranchettes, Anderson Subdivision and Lone Butte; assess potential risks and impacts to these communities and infrastructure from wildfires; and provide effective and feasible mitigation strategies to reduce identified hazards and risks. In accordance with the 2024 Community Wildfire Resiliency Plan Instruction Guide, this plan will aim to:

1. enhance capacity and understanding of wildfire risk throughout the CRD and specifically within Electoral Area L,
2. promote collaboration within the CRD and across administrative boundaries,
3. address diverse community needs, and
4. develop actionable and accountable recommendations for effectively reducing wildfire risk.⁴

³British Columbia Wildfire Service. (n.d). Prevention. Retrieved July 17, 2024, from <https://www2.gov.bc.ca/gov/content/safety/wildfire-status/prevention>

⁴Community Wildfire Resiliency Plan Instruction Guide 2023. British Columbia FireSmart.

1.2 Plan Development Summary

Forsite Consultants Ltd. (Forsite) was retained in 2025 to develop a Community Wildfire Resiliency Plan (CWRP) for six electoral areas within the Cariboo Regional District. These include Electoral Areas D, E, F, G, H, and L. The development of this CWRP for Electoral Area L included the following components:

1. **Gathering and analysis of background information:** A thorough review of existing relevant plans and compilation of spatial data to help inform this CWRP.
2. **Identification of human and natural values-at-risk:** Development of a values-at-risk spatial database for Electoral Area L through information provided by the Cariboo Regional District, partner and stakeholder engagement, public engagement meetings and surveys, and Indigenous Government interviews and community meetings.
3. **Public Engagement:** In-person open house meetings were held in each of the six Electoral Areas for this project throughout the Regional District to elicit local input and feedback into the development process of this plan. Feedback and input were utilized to inform recommended action items.
4. **Indigenous Government Engagement:** Forsite, alongside CRD staff, completed in-person meetings with Indigenous Governments and technical staff from First Nations with traditional territories overlapping the southeast Cariboo project area. This included the ?Esdilagh First Nation, Xat'süll First Nation, Ts'q'ésceñ First Nation, Stswecem'c Xget'tem First Nation, Esk'etemc First Nation, Williams Lake (T'execel) First Nation and Tsilhqot'in National Government. These meetings were a collaborative effort between the CRD staff, representatives from each of the Indigenous Governments, and Forsite. The purpose of the meetings was to:
 - a. Raise awareness of the CWRP planning process,
 - b. Create familiarity with FireSmart principles and the language used in resiliency planning,
 - c. Build relationships between CRD staff and local Indigenous Governments.
 - d. Identify opportunities for future collaboration on wildfire management and other emergency response activities.
 - e. Foster mutual understanding and collaboration to support the safety and resilience of the communities.
 - f. Ensure that Indigenous interests and perspectives are considered in the CWRP process and future emergency planning.

Each Nation is currently at their own stage of wildfire resiliency planning and provided valuable information regarding the status of their preparation, planning and response capacity, as well as concerns and opportunities for collaboration with the CRD during wildfire events. Information and themes heard from the meetings with Indigenous Governments were incorporated into the CRD's CWRPs where applicable and utilized to inform recommended action items.

5. **Assessment of local wildfire hazard and risk:** On the ground wildfire threat assessments were completed in forested areas on provincial crown land within the Wildland Urban Interface, adjacent to homes and other values. The results of these assessments were utilized to identify and delineate recommended areas for fuel management treatments.
6. **Development of a risk mitigation strategy with actionable recommendations:** The data and information collected in the above phases provided the necessary content to develop an actionable CWRP that is tailored

to the rural communities within CRD Electoral Area L. The action table provides a comprehensive list of recommendations for the CRD to implement and increase the wildfire resiliency of those communities.

This plan is intended for use by the CRD staff and its partners to guide efforts in wildfire risk reduction and resilience. Comprehensive data collection and engagement with various CRD staff, First Nations, key partners, and the public, ensure a tailored approach specific to Electoral Area L and its communities and values.

1.3 Community Resiliency Investment Program

The Community Resiliency Investment (CRI) Program was announced by the provincial government in 2018 with the goal of providing support and guidance to BC communities to reduce the risk and impacts of wildfire. For municipalities and regional districts, the program is administered by the Union of BC Municipalities (UBCM) on behalf of the Ministry of Forests. The CRI program provides funding to local governments and First Nations to undertake FireSmart planning and activities within their community that help build and support overall wildfire resiliency.

As of 2025, the CRI program requires each community to have an up-to-date **Community Wildfire Resiliency Plan**, a **FireSmart Coordinator position**, and participate in a **Community FireSmart Resiliency Collaborative** in order to be eligible to receive additional funding to undertake other FireSmart activities. This CWRP is designed to meet the requirements and expectations of the CRI program at the time of development; recommendations within the Action Plan are intentionally organized to facilitate future CRI funding applications. However, it is important to note that government funding programs are subject to government budget availabilities and allotment. As such, the CRI program and eligible activities are subject to change annually.

Additionally, the information and recommendations in this report were developed to assist communities in understanding local wildfire risk and provide steps to enhance wildfire resiliency. Local governments reserve the right to utilize funding and implement action items in a manner that best suits the needs of their communities

2.0 Relationship to Other Plans

Numerous plans offer valuable insights to inform the CWRP, providing essential background information and guiding its development. The plans listed in Table 2 were consulted during the CWRP development process to ensure alignment with existing community and land objectives.

Table 2: Key Plans and Relationship to CWRP

Key Plans and Relationships to CWRP		
Plan Type	Description	Relationship to CWRP
Cariboo Regional District Community Wildfire Protection Plan 2019 Update	The 2019 Cariboo Regional District CWPP CWPP describes local vegetation and analyses local wildfire threat on and directly adjacent to Cariboo Regional District lands. The plan focuses primarily on FireSmart efforts within the community.	The CWPP is the predecessor to the CWRP. This CWRP will build upon the findings and analyses of the previous CWPP and provide actionable recommendations to further enhance wildfire resiliency in the Bella Coola Valley.
South Cariboo Area Official Community Plan (Bylaw No. 5171)	This Official Community Plan provides a statement of objectives and policies of the CRD to guide decisions on planning and land use management in the South Cariboo Plan Area. The South Cariboo OCP Area includes parts of Electoral Areas G, H and L, consisting of 10 unincorporated communities in the outlying area surrounding the District of 100 Mile House including: 103 Mile, Simon Lake/Straight Lake, Gateway/Buffalo Creek, Forest Grove, and Horse Lake.	Sections that include considerations for wildfire mitigation and FireSmart implementation include: <ul style="list-style-type: none">• 1.4 Implementation of Bylaw 5008 wildfire interface risk considerations• 8.3.17 Wildfire hazard mitigation strategy requirements for rezoning and subdivision approvals• 17.3.4 Coordination with Provincial ministries
Green Lake and Area Official Community Plan (Bylaw No. 4641)	This Official Community Plan is a bylaw of local government that provides objectives and policies to guide decisions on planning and land use management within the Green Lake and Area OCP boundary. The plan includes parts of Electoral Areas L and G, within the CRD.	Sections that include considerations for wildfire mitigation and FireSmart implementation include: <ul style="list-style-type: none">• 13.3-10 Wildfire hazards• 20.1.5(f) Exemption from permit to remove trees for FireSmart purposes• Schedule G: Wildfire Probability Map

Key Plans and Relationships to CWRP		
Plan Type	Description	Relationship to CWRP
Interlakes Area Official Community Plan (Bylaw No. 3906)	This Official Community Plan intended to identify the broad objectives and policies regarding the form and character of land uses within the geographical area affected by the plan and contains objectives and policies that reflect the interest of the communities and agencies within the portion of Electoral Area L to which this plan applies.	<p>Sections that include considerations for wildfire mitigation and FireSmart implementation include:</p> <ul style="list-style-type: none"> • Development Approval Information • 2.2(6) Wildfire hazard risk considerations when designing subdivisions in resource areas and unsurvey crown land • 5.2(10) Wildfire hazard risk considerations when designing subdivisions in residential areas
2025 Business Plans – Fire Departments (1300)	A plan to identify overall operational and financial capacities, goals, and significant issues & trends of each volunteer fire department within the CRD.	Electoral Area L includes the following firehalls: <ul style="list-style-type: none"> • Deka Lake Fire Protection (1326) • Lone Butte Fire Protection (1329) • Interlakes Fire Protection (1367) • 100 Mile Fringe Fire protection (1320)
Solid Waste Management Plan	High-level long-term management guide to manage solid waste within the CRD, in accordance with the pollution prevention hierarchy.	<p>Sections within this plan include wood waste management strategies and challenges, including from FireSmart activities and wildfire-related wood debris including:</p> <ul style="list-style-type: none"> • 2.2.3 Economy • 2.2.5 Climate Adaptation and Mitigation • 2.4.9 Challenges and Opportunities
Cariboo-Chilcotin Land Use Plan (1994)	The Cariboo-Chilcotin Land Use Plan (CCLUP) is a high-level regional plan that provides a framework for land use, conservation, economic development, and sustainable resource use on crown land. The land base is divided into different resource development zones with objectives to guide land use. Additionally, implementation of the CCLUP involved the completion of seven	<p>Objectives and strategies for land and resource use at a landscape scale impact structure and continuity of vegetation and fuels on the landscape. Stand structure relating to natural disturbances are considered under the following sections of the CCLUP:</p> <p>Fish and Wildlife and Biodiversity Conservation Strategies</p>

Key Plans and Relationships to CWRP		
Plan Type	Description	Relationship to CWRP
	Sustainable Resource Management Plans (SRMPs) covering the entire Cariboo region, Biodiversity Conservation Strategy, Mule Deer Winter Range Strategy, Caribou Management Strategy, and Grasslands Strategy.	
100 Mile House Sustainable Resource Management Plan (2005)	This SRMP provides important spatial reference and explains objectives required to implement the CCLUP. The SRMP is directed by the 90-Day Implementation Process Final Report, which provided detailed area-based resource targets and strategies for timber, range, mining, fish, wildlife, biodiversity conservation, water management, tourism, recreation, agriculture and wildcraft/agro-forestry.	Sustainable resource management in the CRD relies on the presence and management of disturbances that alter and enhance the landscape, such as natural wildfire, as well as the implementation of prescribed and cultural fire in a sustainable manner. Relevant section that inform fire management, use and vegetation management include: <ul style="list-style-type: none"> • 4. First Nations • 6.2 Forest Health • 6.3 No-Harvest Areas • 6.5.3 Wildlife Tree Retention • 6.5.6 Coarse Woody Debris
2025 CRD Emergency Response & Contingency Plan Horse Lake Water System	The Objective CRD Emergency Response and Contingency Plan (ERCP) is to provide staff and regulatory agencies with a guideline for handling water utility related emergencies that may impact the Forest Grove Water System.	Maintaining water system management control during potentially impactful events, such as wildfire is essential to ensure the health and safety of community residents as well as the surrounding environment. Sanitary water systems provide an essential service to residents. Maintaining the function of this service during and after a wildfire event is an important factor in creating a resilient community and aids suppression activities.
Biodiversity Conservation Strategy (1996)	The biodiversity conservation strategy was prepared as part of the CCLUP implementation process. The strategy established Landscape Units, biodiversity emphasis options, and forest seral targets for the Cariboo-Chilcotin region.	Biodiversity objectives and strategies impact the structure and continuity of vegetation and fuels at the stand level and landscape level. Relevant objectives/strategies pertaining to stand type and structure include:

Key Plans and Relationships to CWRP		
Plan Type	Description	Relationship to CWRP
		<ul style="list-style-type: none"> • Distribution of forest seral stages, • Patch size distribution
Mule Deer Winter Range Strategy (2006)	The CCLUP Integration Report mandated the development of mule deer winter range plans and objectives. The Mule Deer Winter Range Strategy in the CCLUP area guides forest harvest planning to restore and maintain mule deer winter range habitat suitability. The strategy provides practical direction for planning and practices at both the landscape and stand levels to integrate mule deer habitat values with timber development. It also provides the framework for the development of spatially defined legal Orders for which winter range management measures apply.	Objectives and strategies for managing mule deer winter range habitat impact the structure and continuity of vegetation and fuels at the stand level and landscape level. Relevant objectives/strategies pertaining to stand structure include: <ul style="list-style-type: none"> • Stand age structure, • Tree species composition, • Size and distribution of harvest openings.
Caribou Management Strategy (1998, 2000)	Mountain caribou are a red-listed species in BC. The CCLUP Integration Report mandated the completion of a caribou strategy which includes an identification of 'modified harvest' and 'no harvest' areas for caribou. The strategy presents targets for mountain caribou. It also provides the framework for the development of spatially defined legal Orders for which wildlife habitat measures for caribou apply.	Legal requirements for species at risk habitat impact the structure and continuity of vegetation and fuels at the stand level and landscape level. In particular, spatially defined "No Harvest" areas could impact active management of vegetation and fuels on the landscape.
Cariboo-Chilcotin Grasslands Strategy - Forest Encroachment onto Grasslands and Establishment of a Grassland Benchmark Area (2001)	The grasslands strategy establishes and maintains a grassland benchmark area within which forest encroachment will be controlled, to protect values for both livestock grazing and biodiversity.	A principal factor of forest encroachment into grasslands is the reduced frequency of grassland fires over the last century from the effects of colonization on indigenous peoples and practices. The strategy recognizes the use of prescribed fire as a method to control tree encroachment and maintain or restore grassland ecosystems.

In addition to existing plans, community bylaws were reviewed for their relevance to the CWRP, as outlined in Table 3.

Table 3. Key Bylaws and Relationship to CWRP

Key Bylaws and Relationships to CWRP		
Plan Type	Description	Relationship to CWRP
CRD South Cariboo Area Zoning Bylaw No. 3503	A rural land use bylaw pertaining to rural areas within Electoral Areas G, H and L.	The purpose of this rural land use bylaw is to provide a statement of the objectives, policies, regulations and provisions of the Cariboo Regional District Board of Directors respecting present and proposed land use and development in the South Cariboo Rural Planning Area.
CRD Building Bylaw No. 4997	A bylaw of the Cariboo Regional District, in the Province of British Columbia, to regulate the construction, alteration, repair, moving or demolition of buildings and structures.	Local Building Bylaws must adhere to the BC Building Code.
Development Approval Information Bylaw No. 5008	A bylaw to establish regulations for requiring Development Approval Information.	Relevant sections include: <ul style="list-style-type: none"> • S.19 – Wildland Urban Interface Which pertains to a report identifying susceptibility of wildfire relating to development of community services or public facilities.
CRD Fire Departments Bylaw No. 5014	A bylaw of the Cariboo Regional District to provide for the operation of Fire Departments.	Identifies local fire departments operational responsibilities, rights and level of training.
Development Procedures Guidelines and Fees Bylaw No. 5458	A bylaw to establish various development procedures and guidelines and to authorize the imposition of fees related to land use applications and meetings.	Identifies the required procedures and fees associated with applications pertaining to land use.
Water Services Management Bylaw No. 5506	A bylaw respecting the management of the water systems within the Cariboo Regional District.	Identifies restrictions, and responsibilities regarding CRD owned and operated water systems, including usage for fire protection services.

Key Bylaws and Relationships to CWRP		
Plan Type	Description	Relationship to CWRP
Untidy and Unsightly Premises Bylaw No. 4628	A bylaw to regulate untidy and unsightly premises.	Identifies the legal requirement for property owners to maintain tidy and sightly properties and manage accumulation of filth, discarded materials or rubbish or unsightly materials of any kind.
CRD Emergency Program Regulatory Bylaw No. 4595	A bylaw to regulate the Cariboo Regional District Emergency Management Organization as a service of the Cariboo Regional District.	Identifies the positions, roles, responsibilities, power and liability of the Emergency Planning Program Committee.

3.0 Community Description

Electoral Area L, known as the Interlakes/Lone Butte area, is located within the southeast corner of the Regional District and encompasses an area of 127,000 hectares. Area L borders 100 Mile House to the northwest and the Thompson-Nicola Regional District along its southern and eastern edges. The major communities in this area include Deka Lake, Sheridan Lake, Roe Lake, Bridge Lake, Lone Butte, Horse Lake, Watch Lake, and the northern part of Green Lake. Many properties within the electoral area are recreational properties, creating seasonal fluctuations in the population numbers.

The Interlakes/Lone Butte area beholds a bounty of lakes and mountains, offering a multitude of sightseeing opportunities such as the Butte at Lone Butte, an ancient hardened volcanic cap, to MacDonald summit at 1,312 meters elevation. The area boasts a significant portion of Highway 24, known as The Fishing Highway, a scenic route that offers access to destination fishing lakes as well as ATV and horseback riding opportunities. Throughout, the region encompasses numerous rental cabins, lodges and Bed & Breakfasts, supporting the seasonal tourist population.

3.1 Area of Interest

The Community Resilience Investment (CRI) program provides guidance for defining the AOI, which varies depending on the type of local government (e.g., municipality versus a regional district) and structure density. For regional districts the boundary of an electoral area can be the boundary of the AOI. The AOI for this CWRP has therefore been established as the boundary of Electoral Area "L". In total, the AOI covers approximately 127,000 hectares (Figure 3).

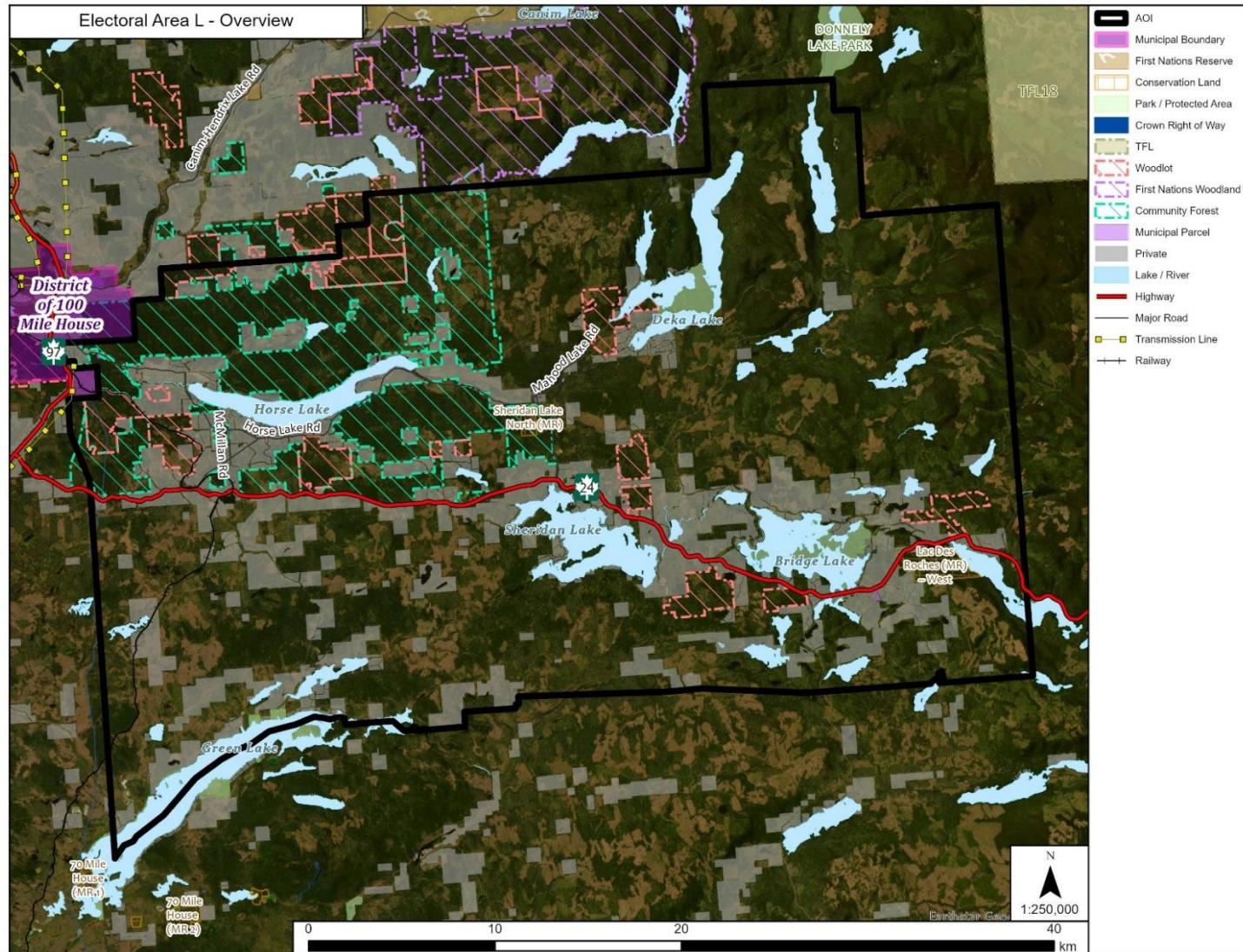


Figure 1: Electoral Area L Area of Interest (AOI) and land jurisdiction.

3.2 Wildland-Urban Interface

The Wildland Urban Interface (WUI) denotes the zone where flammable vegetation interfaces with homes, structures, and critical infrastructure. Wildfires occurring in the WUI present distinctive challenges for stakeholders and local authorities. Such wildfires are often perceived primarily as threats to human lives rather than natural components of the ecosystem. Additionally, jurisdictional boundaries among emergency services can be intricate, leading to coordination challenges among multiple agencies with varying training, equipment, and tactics during emergencies.

For the purposes of the provincial FireSmart Community Funding and Support (FCFS) structure, the eligible WUI within this CWRP is redefined as a maximum of one kilometre from where structure density is greater than six structures per square kilometre⁵. Figure 2 also illustrates the eligible WUI for this CWRP.

⁵ [FireSmart Community Funding and Supports](#)

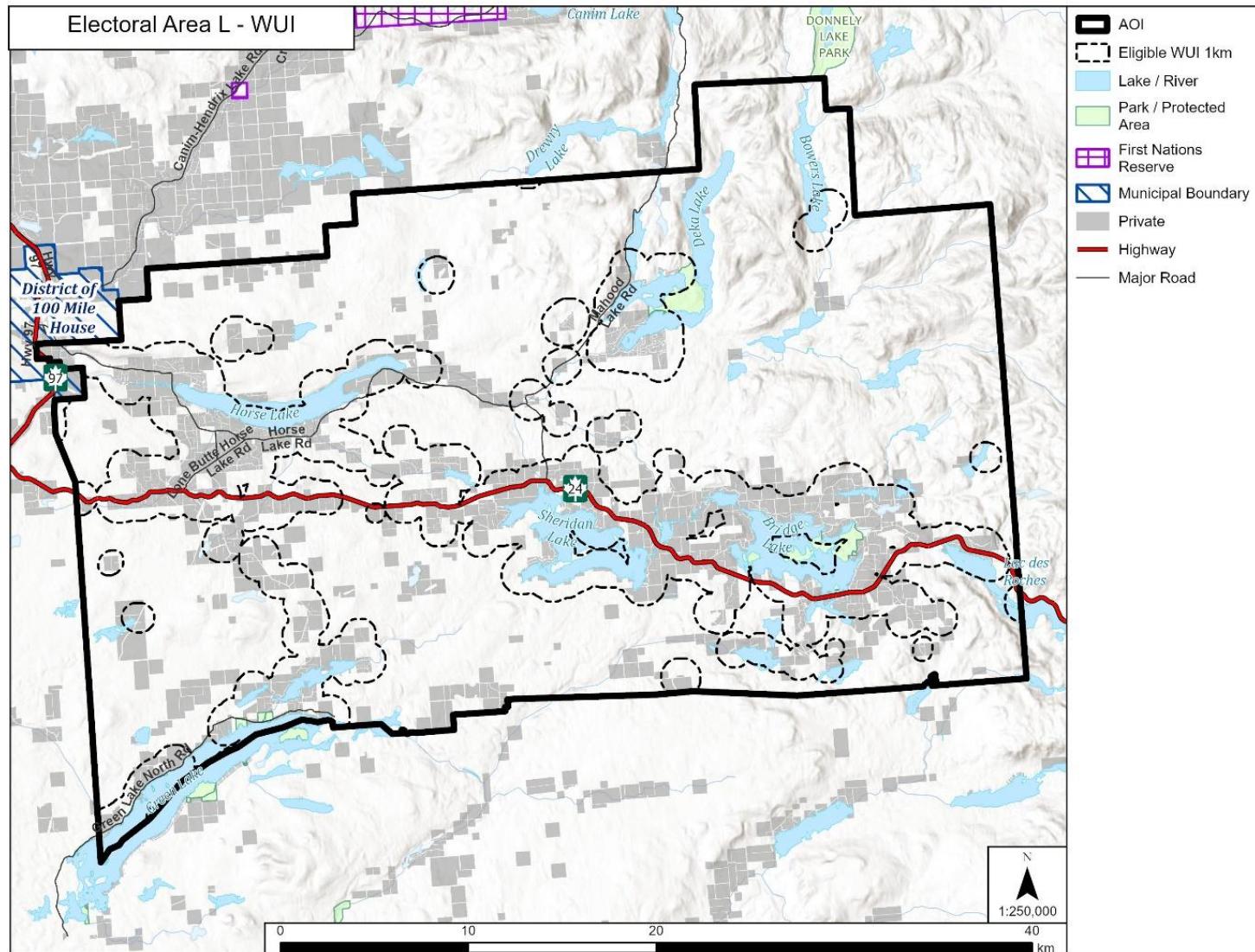


Figure 2: Electoral Area L Wildland Urban Interface (WUI).

Within Electoral Area L, the eligible WUI landbase encompasses 54,000 hectares, constituting approximately 43% of the total AOI. The land jurisdiction within the WUI zone is as follows:

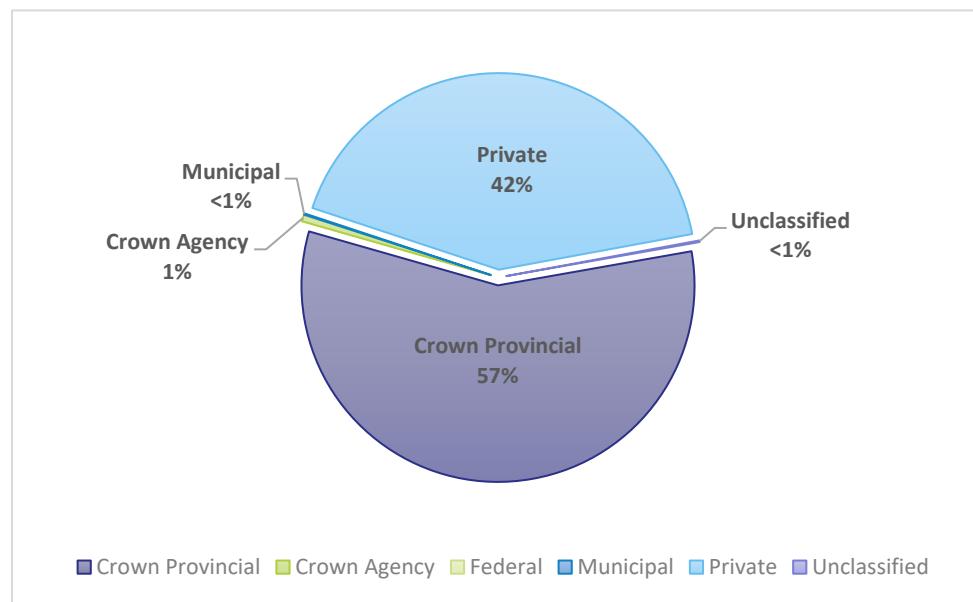


Figure 3: Land jurisdiction within the eligible Wildland Urban Interface for Electoral Area L (Source: BC Data Catalogue).

For CRWP's, land jurisdiction within the eligible WUI dictates where provincial funding is eligible to support fuel/vegetation management projects. For regional districts, funding for fuel management treatments is available for crown provincial lands. For Electoral Area L, nearly 60% of the land is classified as crown provincial, which is the amount of land available for provincial funding to support fuel treatment activities. The remaining 43% of the land in Electoral Area L is contained within private, federal and municipal holdings. This provincial funding is not available for private land, federal land or IR land, or municipal land; therefore, private landowners and other local governments must play their part in collaboratively reducing wildfire risk on their property and lands to enhance wildfire resiliency across the landscape.

3.3 Community Information

Electoral Area L has a population of approximately 4,800 residents with a median age of 60 years old, indicating that a middle aged and senior populations form a substantial part of the community (Table 4). As of 2021, approximately 39% of the dwellings within Electoral Area L are occupied by season residents, creating seasonally dependent population fluctuations. The overall density distribution of the electoral area is considered low, at 3.8 persons per square kilometre.

Table 4: CRD Electoral Area L community profile⁶

Community Information	
Total Population (2021)	4,769
Total Population (2016)	4,204
Population Percentage Change (2016 -2021)	13.4
Total Private Dwellings	3,746
Private Dwellings Occupied by Usual Residents	2,286
Population Density Per Square Kilometers	3.8
Land Area (sq. km)	1,270

Regional services provided to all electoral areas within the Cariboo Regional District include:

- Emergency Management
- Bylaw Enforcement
- Corporate Administration
- Electoral Area Administration
- Land Use Planning
- Library System
- Waste Management
- Weed Control

Sub-regional services provided by the CRD include:

- South Cariboo Arena
- South Cariboo Curling Rink
- South Cariboo Recreation Programs
- South Cariboo Regional Airport
- South Cariboo Highway Rescue (Contribution)

Local services within the region include:

- 100 Mile Fire Protection
- Community Halls Support - Area L (Contribution)
- Deka Lake Fire Protection

⁶ [Census Profile](#), 2021 Census of Population – Cariboo L, Regional District Electoral Area

- Horse Lake Water System
- Interlakes Fire Protection
- Lone Butte Fire Protection
- Lone Butte Street Lighting

3.4 Values at Risk

The following section is a description of the extent to which wildfire has the potential to impact the values at risk (VAR) identified within the Electoral Area L AOI. VAR are the human or natural resource values that may be impacted by wildfire; this includes human life, property, critical infrastructure, high environmental and cultural values, and resource values. High VAR are often found within the WUI, but can be geographically isolated, such as a remote communication tower

3.4.1 Human Life and Safety

Human life and safety are the highest priority in the event of a wildfire. A key consideration is the evacuation and safe egress of threatened areas when necessary. Evacuations can be a complex and dynamic nature of wildfire incidents. Orderly evacuation requires pre-planning and take time to execute. Safe egress routes can be compromised by traffic congestion and accidents, or the dynamics of the wildfire itself.

As the most recent census in 2021, the population within Electoral Area L exceeded 4,700 people, representing an increase of 13.4% from the previous census in 2016 (Statistics Canada, 2023). The population density of Electoral Area L is overall low, with 3.8 people per square kilometre. Majority of residents are congregated in communities along lake shores with limited road capacity and egress routes.

Additional risk factors to be considered in emergency response and evacuation planning include increased dispersed population during the summer months due to recreation areas, as well as areas with limited egress routes such as the subdivisions surrounding Sheridan Lake, Deka Lake, Higgins Lake and Eagan Lake.

3.4.2 Emergency Response

Provincial legislation and policies are in place to support local governments during disasters. On November 8, 2023, the new Emergency and Disaster Management Act (EDMA) came into force, replacing the previous Emergency Program Act. The updated legislation reflects the changing nature of emergencies (e.g. global pandemics, climate change), and shifts from focusing on emergency response to the four phases of emergency management: mitigation, preparation, response, and recovery. To support the new legislation, the provincial government is updating and developing regulations in consultation and cooperation with First Nations, and informed by engagement with Indigenous organizations, provincial ministries, municipalities, regional districts, critical infrastructure owners, public sector agencies, service providers, emergency management practitioners and the public.

The CRD Emergency Plan provides guidance and direction for district staff to follow in the event of an emergency within the CRD. The Hazard Risk and Vulnerability Analysis (HRVA), which identifies wildland and interface fires as being the highest risk emergency within the CRD, provides clarification on the levels of municipal, provincial and federal response to emergencies, information on roles and responsibilities for CRD departments during an emergency, and evacuation protocols.

The CRD is currently awaiting finalization of the EDMA Regulations which will inform local authorities on the requirements for emergency management plans to update their current Emergency Management Plan, to align it with the most recent legislation.

3.4.2.1 Methods of Communication

In the event of an emergency or disaster, the CRD Emergency Operations Centre (EOC) may be activated to help coordinate the emergency response. The level of Emergency Operations Centre staffing varies with the specific emergency situation. The Cariboo Regional District uses VoyentAlert! as its platform for emergency alerts and notifications to notify residents about emergency events or major service disruptions, such as Evacuation Alerts or Orders issued in response to wildfires, and other disasters and Critical Service Advisories and notices for affected CRD water systems. Residents receive the alert via their mobile device, computer, or landline.

The CRD VoyentAlert! system to date includes approximately 25,000 registered recipients. This includes all 12 electoral areas, as well as residents living within Williams Lake, 100 Mile House, Wells, Quesnel and those living on First Nation Reserves. To protect personal privacy, the VoyentAlert! system does not identify the home addresses of individual registered recipients; therefore, it is unclear exactly how many people within each electoral area are recipients of these alerts.

To receive VoyentAlert! Messages, either a cellular, landline or internet connection is required. This may be a limiting factor for many remote areas within Electoral Area H. At times, the RCMP or other response agencies may be deployed to these areas to alert residents of an emergency event.

3.4.3 Fire Suppression Capabilities

The Cariboo Regional District oversees 14 volunteer fire departments (VFD). The CRD has mutual aid agreements with other local fire brigades, municipalities and several First Nations in the region. These agreements allow equipment and manpower from surrounding departments to assist neighbouring services in the event of large fires or multiple incidents happening at the same time. Within the CRD, VFD's are expected to maintain a minimum roster of 15 volunteer members who train once a week for two hours. Minimum requirements for each department include having the following equipment to meet ULC and Fire Underwriters Standards:

- 1 X frontline fire engine
- 1 X frontline water tender
- 1 X reserve tender or engine supporting mutual aid across CRD fire departments

Within Electoral Area L, the CRD oversees three fire departments, Deka Lake Volunteer Fire Department, Interlakes Volunteer Fire Department, and Lone Butte Volunteer Fire Department. In addition, the District of 100 Mile House Fire Rescue provides fire protection services to CRD properties on the fringe of the 100 Mile Fire Department fire protection area through the 100 Mile Fringe Fire protection contractual agreement. This includes portions of electoral areas G, H and L.

The Deka Volunteer Fire Department operates out of the Deka Lake area and provides services to a portion of electoral area L. Deka Lake VFD also operates a satellite fire hall out of the Sulphurous Lake Region. Recruitment and retention have been identified as a significant issue and trend for the Deka Lake department, as well as increasing costs and administrative support. Response to a call out is not guaranteed and relies on volunteer availability. The Deka Lake VFD currently operates the following apparatuses.

- 2 X Fire Engines

- 4 X Water Tenders
- 1 X Fire Rescue Boat

The Interlakes Volunteer Fire Department operates three fire halls across the Interlakes region and provides services to the surrounding areas of electoral area L. Recruitment and retention have been identified as a significant issue and trend for the Deka Lake department, as well as increasing costs and administrative support. Response to a call out is not guaranteed and relies on volunteer availability. The Interlakes VFD currently operates the following apparatuses.

- 4 X Fire Engines
- 3 X Water Tenders
- 1 X Structure Protection Trailer

The Lone Butte Volunteer Fire Department operates out of the Lone Butte area within Electoral Area L, but provides services to a portion of electoral areas G. Recruitment and retention have been identified as a significant issue and trend for the Forest Grove department, as well as increasing costs and administrative support. Response to a call out is not guaranteed and relies on volunteer availability. The Lone Butte VFD currently operates the following apparatuses.

- 2 X Fire Engines
- 2 X Water Tenders
- 1 X Rescue Unit

The District of 100 Mile House Fire Rescue is composed of paid on call firefighters and through a contractual agreement, provides fire protection services to CRD properties on the fringe of the 100 Mile Fire Department fire protection. This includes the portion of Electoral Area L covering the area from 100 Mile House to the north and northwest ends of Horse Lake. For 2025, the District of 100 Mile House Fire Rescue Department plans to enter agreements to utilize 100 Mile Emergency Services Training Centre for all South Cariboo VFDs, in efforts to increase access to training to build skills for volunteer firefighters. The District of 100 Mile House Fire Rescue currently operates the following apparatuses

- 2 X Fire Engines
- 1 X Water Tenders
- 1 X Rescue Unit
- 1 X Wildland Unit
- 2 X Command Pickups
- 1 X Structure Protection Trailer

The South Cariboo Mutual Aid Agreement Includes all CRD volunteer fire departments in the South Cariboo, the District of 100 Mile House Fire Rescue, as well as one additional independent VFDs/Fire Brigades, that operates within the electoral area but is not overseen by the CRD, including the Noth Green/Watch Lake Volunteer Fire Department, serving their respective area. This agreement allows for any one of these departments to call on another, or all to provide personnel and equipment support during large emergencies, when an individual department's resources may become overwhelmed or are insufficient.

The remaining rural areas or communities throughout the electoral area outside the above-mentioned fire protection areas fall under the BC Wildfire Service (BCWS) jurisdiction for fire response. For wildfire incidents occurring outside the fire departments response areas, the BCWS may authorize additional suppression support from fire departments. Electoral Area L is located within the Cariboo Fire Centre and is covered by 100 Mile House Fire Zone.

3.4.4 Electric Power

Electrical power throughout the Regional District is primarily provided by aboveground lines for most of the district, serviced by BC Hydro. In the event of a power outage, the Hores Lake water system has a diesel generator as a backup source of electrical power. The number of generators owned by private landowners is unknown.

3.4.5 Critical Infrastructure

Critical infrastructure (CI) assets are structures or facilities that are vital to a community's health, safety, security, and economic well-being. Protecting these assets during a wildfire event is crucial for emergency response preparedness, ensuring coordinated evacuations, and maintaining or restoring essential services promptly afterward. Critical infrastructure encompasses emergency and medical services, electrical and gas utilities, transportation networks, water and wastewater systems, social support services, and communication infrastructure. Implementing FireSmart activities around critical infrastructure can significantly reduce wildfire losses and impacts.

Critical Infrastructure located within Electoral Area L as identified by the Cariboo Regional District is detailed below in Table 5.

Table 5. Critical infrastructure located within Electoral Area L.

Critical Infrastructure	Ownership	Site	Location
Refuse Site	CRD	Lone Butte Transfer Station	6106 Little Fort Highway 24
		Interlakes Landfill	7377 Horse Lake Road
		Watch Lake Landfill	7923 Watch Lake Road
Schools	Cariboo-Chilcotin School District	Horse Lake Elementary	6548 Ryall Road Lone Butte
Water/Sewer	CRD	Horse Lake Water	Horse Lake Access No. 6
Fire Halls	CRD	Deka Lake Volunteer Fire Department	7449 Burgess Rd, Lone Butte, BC
		Interlakes Volunteer Fire Department	7348 Sheridan Lake Road West (Hall 1)

Critical Infrastructure	Ownership	Site	Location
			7657 Little Fort Hwy (Hall 2) 8261 Little Fort Hwy (Hall 3)
	Lone Butte Volunteer Fire Department		6060 Little Fort Hwy

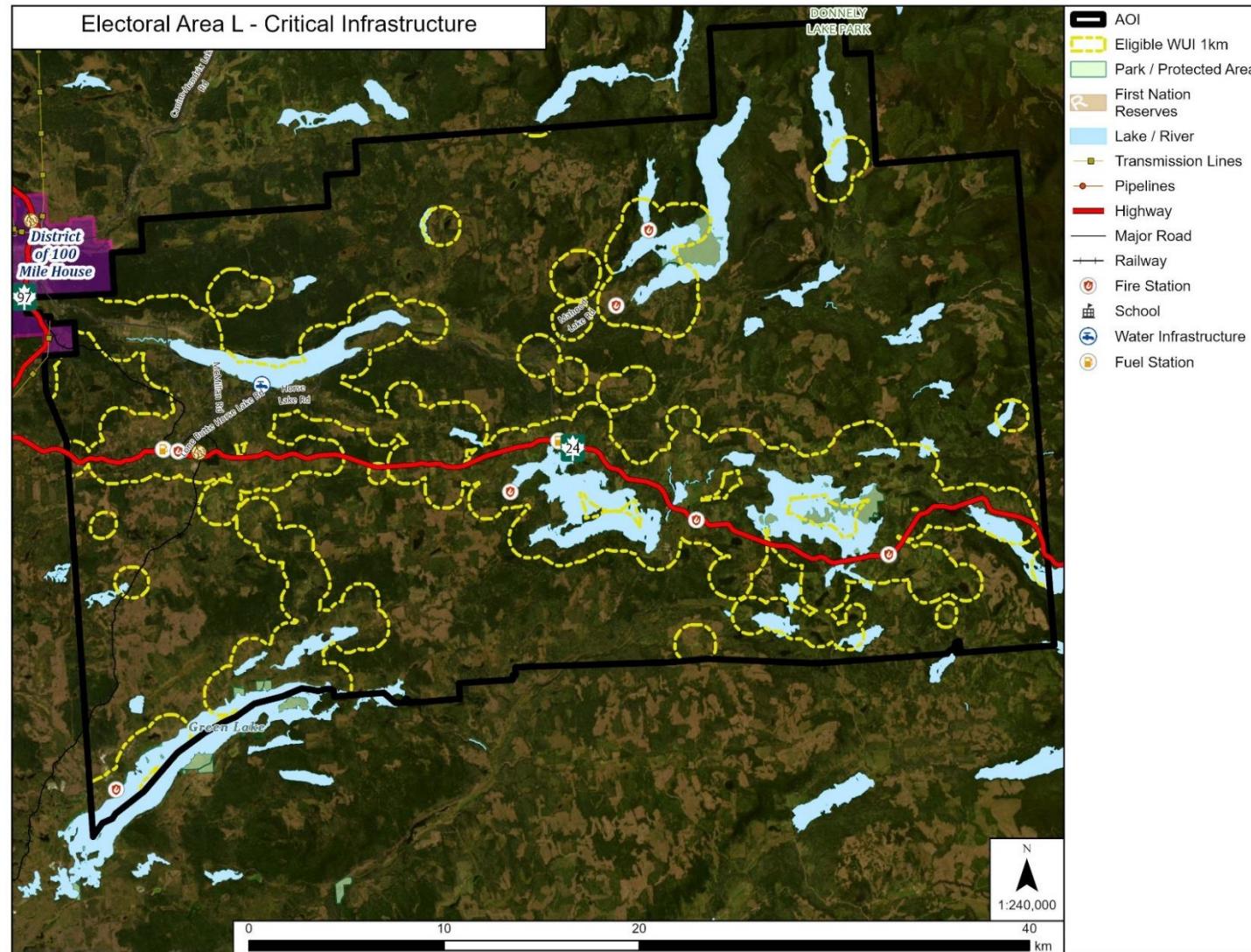


Figure 4: Critical Infrastructure identified for Electoral Area L

A description of potential impacts from a temporary or permanent disruption to each critical infrastructure listed in Table 5 during and after a wildfire event, is as follows.

Refuse Sites

The solid waste disposal services provided by Interlakes and Watch Lake Landfills as well as the Lone Butte Transfer Station are listed within the CRD Emergency Plan under essential environmental services as they provide essential environmental protection and sanitary services to CRD residents. Temporary and/or permanent disruption of this service may create short and/or long-term impacts to the area, affecting the ability of residents to live and conduct business in the area. In addition, wildfire encroachment into solid waste disposal areas provides additional fire suppression challenges and increased health risks to emergency services personnel and first responders in the area.

Schools

Temporary and/or permanent disruption of schools may create short and long-term impacts to the community through setbacks in learning opportunities and a potential for a decrease in the local population if schools are to shut down long-term. In addition, during a wildfire event, schools can often provide a place for an incident command post, operational staging area, evacuee center or other additional emergency support services.

Water/Sewer

The Horse Lake Water system services 242 land parcels and consists of two wells, one well house, one reservoir and associated pumps and service line, as well as 11 fire hydrants.

Water utilities are listed within the CRD Emergency Plan under essential environmental services as they ensure environmental protection and sanitary needs are met. Temporary and/or permanent disruption of these services may create short and/or long-term impacts to the area, affecting the ability of residents to live and conduct business in the area. Water systems with fire hydrants also offer much needed water support to fire departments during an active fire emergency (wildland, structural or interface) to ensure quick and efficient suppression. Regular maintenance, along with protection from wildfire impacts, is crucial to ensure this service is available, at full capacity, when required.

Fire Halls

Safeguarding all fire halls within the CRD is essential to ensure the ability of local fire departments to function safely, efficiently and at full capacity. Fire departments can provide several different emergency services during a wildfire event in addition to fire suppression activities, based on their capacity, training and equipment availability. Firehalls also often provide a space for incident command post centers to be housed.

3.4.6 Community Watersheds and Water Supply

Potential impacts to watersheds that provide surface water resources for rural communities should be identified as wildfires may affect soil integrity and sedimentation levels, as well as increase likelihood of landslides. These effects can significantly degrade water quality for extended periods of time. In extreme scenarios, the water supply may need to be temporarily or permanently abandoned, necessitating development of new infrastructure. This process may take several years to complete and requires considerable financial investment and funding.

No community watersheds are delineated within Electoral Area L.

The CRD owns and operates the Horse Lake water system within Electoral Area L. The Horse Lake Water system does contain 11 fire hydrants that can provide water to aid in fire protection, however due to current inadequacies with the system, the hydrants are not able to be recognized by the Fire Underwriters Survey.

All other residential water systems are presumed to be privately owned wells. Capacity for fire suppression from individual water systems is unknown and presumed to be none.

3.4.7 Cultural Values

Electoral Area L is situated on the traditional territory of the Tsq̓es̓en̓ and Stswecem̓c Xget'tem First Nations. Indigenous cultural sites in BC are generally not shared with the public due to their sensitive and confidential nature. Local First Nations have the right to keep access to these resources private. Due to an extensive and uninterrupted First Nation presence throughout the region, wildfire and associated suppression operations have the potential to inadvertently impact or destroy cultural heritage resources. Any planned activities or treatments for the purpose of wildfire mitigation must be appropriately communicated to local First Nations and allow for meaningful engagement throughout the project.

The Tsq̓es̓en̓ and Stswecem̓c Xget'tem First Nations have indicated that cultural sites exist across their territory and requested that once proposed Fuel Treatment Unit sites have been identified, prior to any treatment work being implemented, they would like the opportunity to review maps and identify and culturally significant sites that may be impacted and provide guidance on how to respectfully proceed. This process will require clear and respectful collaboration between both the First Nation involved and CRD staff to be successful.

The 100 Mile House Sustainable Resource Management Plan, Section 4 identifies the commitment to work with First Nation on government-to-government bases, including objectives to better understand and incorporate First Nations Traditional Knowledge (TK), including the use of fire as a resource and land management tool.

3.4.8 High Environmental Values

The BC Conservation Data Centre (CDC) provides information about species and ecosystems at risk through the BC Species and Ecosystems Explorer, and CDC iMap. Recorded occurrences of Red and Blue listed animals and ecological plant communities at risk within Electoral Area L have been summarized in Table 6. Red listed species represent any species or ecosystem that is at risk of being lost (extirpated, endangered or threatened). Blue listed species are any species or ecosystem that is of special concern.

Table 6. Red and blue listed species found within Electoral Area L.

Scientific Name	Common Name	Element Type	BC List Status
<i>Taxidea taxus</i>	American Badger	Vertebrate Animal	Red
<i>Ardea herodias herodias</i>	Great Blue Heron, herodias subspecies	Vertebrate Animal	Blue
<i>Botaurus lentiginosus</i>	American Bittern	Vertebrate Animal	Blue
<i>Spea intermontana</i>	Great Basin Spadefoot	Vertebrate Animal	Blue

Scientific Name	Common Name	Element Type	BC List Status
<i>Chrysemys picta</i> pop. 2	Painted Turtle - Intermountain - Rocky Mountain Population	Vertebrate Animal	Blue
<i>Coccinella novemnotata</i>	Nine-spotted Lady Beetle	Invertebrate Animal	Red
<i>Bombus terricola</i>	Yellow-banded Bumble Bee	Invertebrate Animal	Blue
<i>Juncus balticus</i> - <i>Carex praegracilis</i>	Baltic rush - field sedge	Ecological Community	Red
<i>Carex atherodes</i> Fen - Marsh	awned sedge Fen - Marsh	Ecological Community	Blue

The Cariboo-Chilcotin Land Use Plan (CCLUP) and the associated 100 Mile House Sustainable Resource Management Plan and Biodiversity Conservation Strategy identify specific management polygons and areas with best management practices and strategies for conducting work in areas with specifically identified wildlife species and species groups, as well as habitats. This may include guidelines around riparian area protection and the identification and retention of wildlife trees and coarse woody debris for habitat, as well as plant and animal species specific considerations when conducting work within planned treatment areas.

In addition, the implementation of fuel treatment units may complement the management goals of some high-level plans for species management under the CCLUP. For example, the Mule Deer Winter Range Strategy and Cariboo-Chilcotin Grasslands Strategy - Forest Encroachment onto Grasslands and Establishment of a Grassland Benchmark Area conclude that the implementation of prescribed and cultural fire can benefit grasslands, promote native species growth and increase mule deer range. The establishment of fuel treatment areas and long-term maintenance with prescribed and cultural fire is consistent with the goals of these land and wildlife management strategies.

Also, when considering forest health and no-harvest areas within the 100 Mile House Sustainable Resource Management Plan, exceptions to allow for harvesting may be made when the work being done is to provide aid in the control and management of wildfires.

All site-level vegetation/fuel management activities and operational wildfire risk reduction treatment plans must follow all legal requirements set out in legislation, orders and high-level plans, or consider best management practices for identified environmental resources and species at risk and their habitats. Assistance and advice from a Registered Professional Biologist or other qualified professional may be required prior to the implementation of any wildfire risk reduction activities in the area to determine potential impacts and guide treatment activities.

3.4.8.1 Parks and Protected Areas

Parks and protected areas contribute significantly to habitat and ecosystem protection, enhancing biodiversity across the landscape. They also provide environmental education, stewardship, recreation, and community engagement opportunities.

There are several large provincial parks within Electoral Area L, with many of them adjacent to private residences and neighbourhoods. The following provincial parks have been identified within Electoral Area L:

- **Green Lake Provincial Park**
- **Bridge Lake Provincial Park**
- **Rainbow/Q'iwentem Provincial Park**

4.0 Wildfire Risk Assessment

The wildfire risk assessment provides land managers and communities with a decision-making tool used to determine risk mitigation opportunities, increasing the overall effectiveness of wildfire risk reduction planning and activities that support community resilience. Understanding the difference between **wildfire threat** and **wildfire risk** provides context for the risk assessment process and promotes alignment and support for risk mitigation strategies. Wildfire risk differs from wildfire threat in that risk takes into consideration the likelihood and potential consequences of a wildfire event on human values.

Wildfire Risk: the likelihood of fire occurrence, fire behaviour, and its potential negative impacts on human values. Overall wildfire risk-based framework considers the combination of the following:

- Likelihood (or probability) of an unwanted wildfire event occurring,
- Associated fire behaviour; and
- Consequence – the resulting negative impacts to values

Wildfire Threat: a fire's capacity to ignite, spread, and consume fuel, influenced by environmental factors such as topography, vegetation, and weather. The three main components used to define wildfire threat and referred to as the Fire Behaviour Triangle are:

- **Topography** – slope (affecting wildfire rate of spread), and aspect (affecting fuel dryness);
- **Fuel** – loading, size/shape, arrangement (horizontal/vertical), compactness, chemical properties, and fuel moisture; and
- **Weather** – temperature, relative humidity, wind speed and direction, and rainfall.

Together these three components interact to characterize the overall wildfire environment and influence wildfire behaviour (Figure 5.)

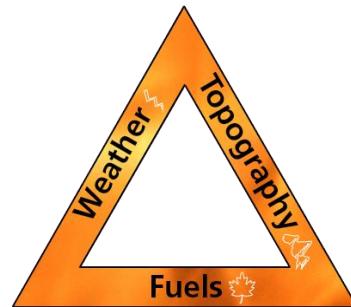


Figure 5. The fire triangle – interacting components that

4.1 Local Wildfire Environment

Analysis of local wildfire environment factors, such as topography, fuels, and weather facilitate a deeper understanding of their combined effects on fire regimes, which includes frequency, intensity, size, severity, season, and ignition sources. By analyzing fire regime related data, we gain valuable insights into patterns and trends of wildfire activity within a specific area. This knowledge supports informed and effective decision-making for risk reduction and community resilience planning.

4.1.1 Topography

Topography describes components on the landscape that can influence fire behaviour including elevation, slope steepness, and slope direction (e.g., south-facing). Topography also includes prominent land features such as canyons and valleys. These features affect fire behaviour in the following ways:

- **Slope:** Steeper slopes accelerate the preheating and combustion phases of fuels due to rising of hot air and shorter distance between burning and unburned fuels. Fires move faster uphill than they do downhill.
- **Aspect:** Determines amount of sun exposure influencing fuel composition and moisture content. In the northern hemisphere, south-facing slopes receive the most sunlight throughout the day, resulting in dryer conditions and increased flammability of fuels.
- **Elevation:** Influences weather conditions such as air temperature and seasonal moisture levels. Higher elevations generally mean cooler temperatures and slower snow melt rates.
- **Prominent land features:** Prominent features such as valleys can direct, funnel, and concentrate wind flows, increasing fire intensity. The spatial structure of these features can also increase radiant and direct heat transfer.

Electoral Area L contains a portion of the Cariboo Mountain Range in the far east and spans out into an undulating topography westward, cradling several prominent lakes that define the region. Highest elevation occurs at Windy Mountain at just under 2,000m. Other prominent land features include Boyd Peak and The Lone Butte as well as Horse Lake, Deka Lake, Bowers Lake, Sheridan Lake and Bridge Lake. Rural communities and transportation corridors within the Electoral Area are primarily situated at lower elevations along prominent lakes, or flat terrain on the Fraser Plateau (Figure 6).

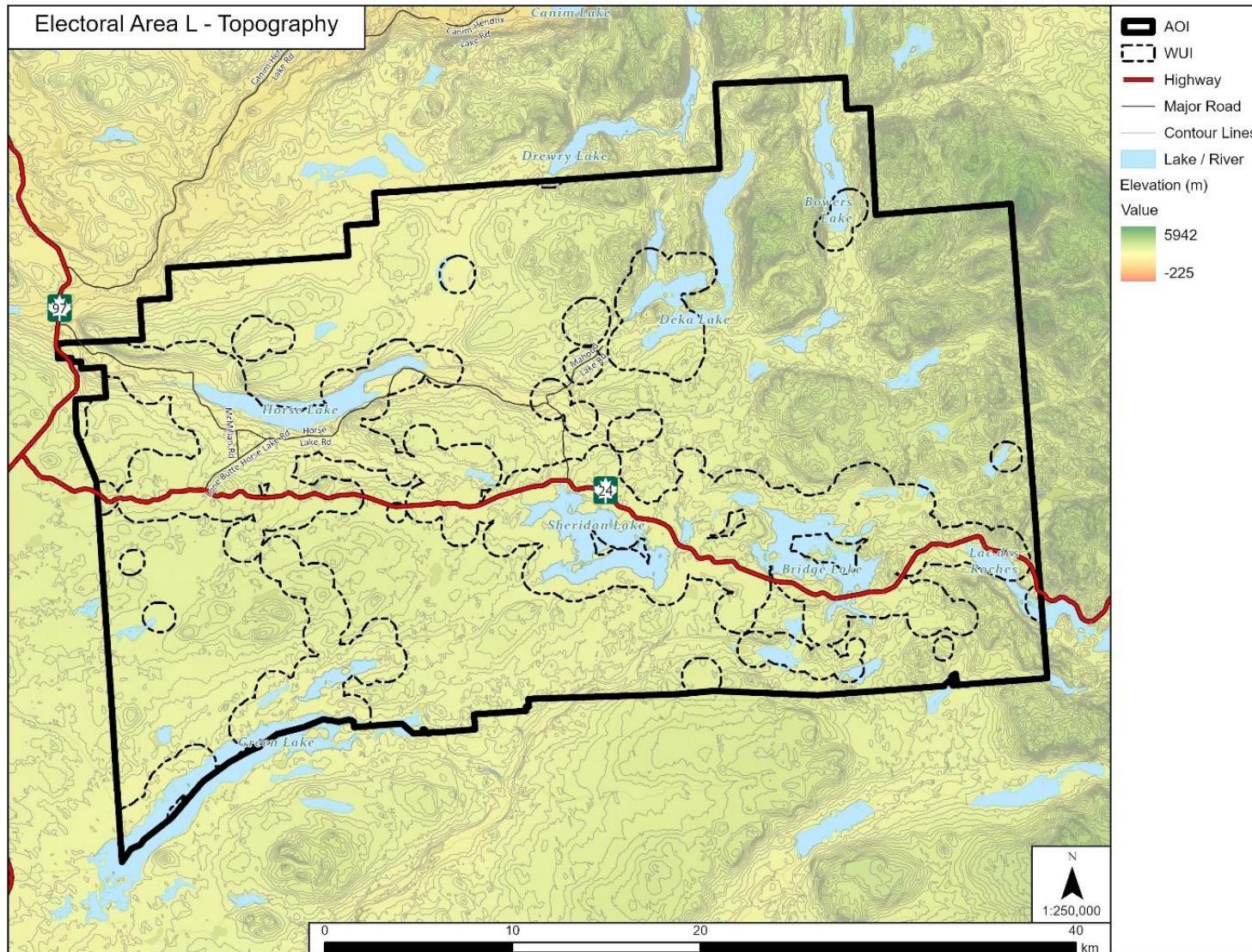


Figure 6: Terrain and Digital Elevation Map for Electoral Area L.

4.1.2 Fuel (Vegetation)

Fuel refers to any flammable material, including vegetation (leaves, bark, trees, duff), that fire burns. It can also include manufactured fuels, such as buildings. The fuel type, dryness, size, and arrangement can influence a wildfire's speed, size and severity. Fuel is the only component of a wildfire that we can control and the most significant (without fuel, a fire cannot burn).

4.1.2.1 Biogeoclimatic Zones

The vegetation (fuels) within any given area of British Columbia can be summarized using the provincial Biogeoclimatic Ecosystem Classification (BEC) system. The BEC system in BC describes and categorizes ecological zones by vegetation, soils, and climate. Regional subzones are derived from relative precipitation and temperature. By understanding the vegetative communities of an area, we can better predict the natural disturbance regime of those ecosystems and the potential effects of wildfire.

The majority of Electoral Area L is located within the Sub-Boreal Spruce (SBS) and Interior Douglas Fir (IDF) biogeoclimatic zones, commonly found on the rolling landscapes of the interior Fraser Plateau. Specifically, the SBS Dry Warm (dw) subzone accounts for approximately 47% of the AOI in the eastern portion of the electoral area, characterized by a mild continental climate⁷. The IDF Dry Cool (dk) subzone accounts for approximately 33%, found in the western portion of the electoral area (Figure 7). It is characterized by a drier climate than the SBS zone due to the rain shadow effect from the Coast Mountains and is the coldest of the IDF subzones in the Cariboo region. The SBPS zone is found on the higher elevation Bonaparte plateau in the southern portion of the electoral area⁸. Table 7 provides a summary of all BEC subzones found within the AOI of Electoral Area L.

Table 7: Biogeoclimatic Ecosystem Classification Zone/subzone and Natural Disturbance Type (NDT) Summary for Electoral Area L.

BEC Zone	Subzone	NDT	Area (ha)	% of EA
SBS	dw(dry warm, Horsefly variant)	NDT3	19,416.55	15
SBS	dw (dry warm, Blackwater variant)	NDT3	40,133.13	32
SBS	mc (moist cold, Moffat variant)	NDT3	10,005.96	8
IDF	dk (dry cool, Fraiser variant)	NDT4	40,994.36	33
SBPS	mk (moist cool)	NDT3	12,909.02	10
ESSF	dc (dry cold, North Thompson variant)	NDT3	2,301.371	2

Vegetated ecosystems within the SBSdw subzone are predominantly characterized by upland coniferous forests comprised of a mixture of Douglas-fir, lodgepole pine, and hybrid white spruce, with components of trembling aspen. Zonal sites often contain abundant pinegrass and well-developed shrub layers. Climax forests are very uncommon due to frequent stand-initiating wildfires⁹.

⁷ <https://cfcg.forestry.ubc.ca/resources/cataloguing-in-situ-genetic-resources/sbs-zone/>

⁸ <https://cfcg.forestry.ubc.ca/resources/cataloguing-in-situ-genetic-resources/idf-zone/>

⁹ Land Management Handbook 39: A FIELD GUIDE TO FOREST SITE IDENTIFICATION AND INTERPRETATION FOR THE CARIBOO FOREST REGION
https://www.for.gov.bc.ca/hfd/pubs/Docs/Lmh39_Part1.pdf

The IDFdk subzone is dominated by multi-aged Douglas-fir stands with abundant pinegrass undergrowth and often contain Douglas-fir vets that have survived previous wildfires. Components of lodgepole pine and aspen may also be present. Shrubs are sparse and typically limited to soopolallie and prickly rose⁹.

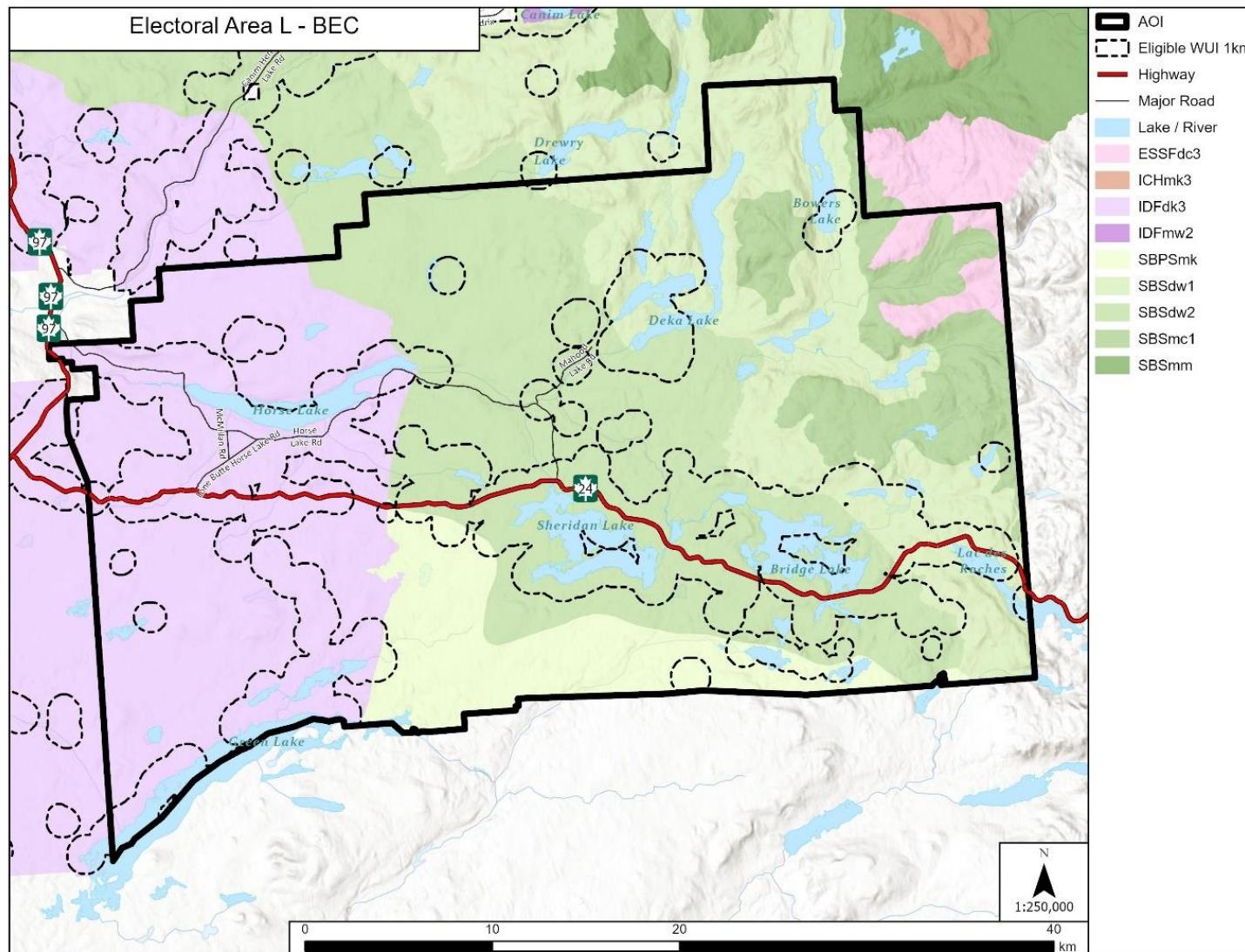


Figure 7: Biogeoclimatic Zones map for Electoral Area L.

4.1.2.2 Natural Disturbance Type

In British Columbia, fire regimes are broadly categorized according to Natural Disturbance Type (NDT) classifications, which consider the frequency and severity of disturbances, such as wildfires. NDTs are closely tied to the BEC Zones and are categorized into five broad disturbance regimes: NDT1 through NDT5 (Table 8).

Table 8: Description of Natural Disturbance Types (NDTs) within British Columbia

Natural Disturbance Type	Natural Disturbance Regime Description	Frequency
NDT 1	Ecosystems with rare stand-initiating events	250 – 350 years
NDT 2	Ecosystems with infrequent stand-initiating events	200 years
NDT 3	Ecosystems with frequent stand-initiating events	100 – 150 years
NDT 4	Ecosystems with frequent stand-maintaining events	4 – 50 years (surface) 250 (stand replacing)
NDT 5	Alpine Tundra and Subalpine Parkland ecosystems	4 - 50 years

Decades of effective fire exclusion, coupled with the suppression of Indigenous cultural burning traditions, have resulted in a fire deficit in certain regions. In British Columbia, these practices have contributed to the densification of forest stands compared to the pre-suppression era in certain areas, consequently elevating the risk of large, high-intensity wildfires¹⁰. These alterations may disrupt the natural disturbance regime, highlighting the need for proactive management strategies to address these challenges.

Electoral Area L falls within Natural Disturbance Types 3 (SBS, SBPS and EIFFS BEC Zones) and 4 (IDF Zone) (Table 8). NDT 3 is characterized by ecosystems experiencing frequent stand-initiating events, with fire being the primary disturbance. Although fire sizes range from small to large, this NDT is where the province historically records the largest fires, with return intervals of 100 to 150 years¹¹. Consequently, the landscape exhibits a mosaic of stands of different ages, with individual stands typically even aged from stand replacing fires.

NDT 4 includes forested communities and grasslands that typically experience frequent, low-intensity and stand maintaining surface fires. Surface fire return intervals historically ranged from 4 to 50 years, with stand-initiating crown fires being quite rare (150-250 years or more). Forested areas on the landscapes contain an uneven-aged mosaic of large, old trees with thick fire-resistant bark (eg. Douglas-fir) and patches of less fire-resistant species or denser understory ingrowth in areas that have escaped low-intensity fires¹¹.

Frequent surface fires historically played an important role in consuming and regulating woody surface fuels, rejuvenating herbs and shrubs species, thinning understory conifer ingrowth, and raising the crown height of

¹⁰ Parisien, M. A., Barber, Q. E., Bourbonnais, M. L., Daniels, L. D., Flannigan, M. D., Gray, R. W., ... & Whitman, E. (2023). Abrupt, climate-induced increase in wildfires in British Columbia since the mid-2000s. *Communications Earth & Environment*, 4(1), 309.

¹¹ Forest Practices Code of BC: Biodiversity Guidebook (1995) https://www2.gov.bc.ca/assets/gov/farming-natural-resources-and-industry/natural-resource-use/land-water-use/crown-land/land-use-plans-and-objectives/cariboo-region/cariboochilcotin-rlup/biodiversity_guidebook.pdf

overstory trees. This regime of fire maintenance is the easiest to duplicate for wildfire risk reduction purposes, however the situation is often complicated by decades of fire exclusion and suppression on the landscape, resulting in higher fuel accumulations in these stands.

4.1.2.3 Fuel Types

The Canadian Forest Fire Danger Rating System (CFFDRS) is used as a decision support tool for wildfire management professionals in Canada, used to assess fire behaviour under various conditions. The CFFDRS is made up of two subsystems, 1) the Fire Behaviour Prediction (FPB) System, and 2) the Fire Weather Index System. Together, these components incorporate weather inputs and fuel types to help predict fire behaviour.

For fire behaviour prediction purposes, Canadian forests and grasslands are categorized into different Fire Behaviour Prediction (FBP) System Fuel Types. These Fuel Types have different vegetation species and structure (e.g. vegetation density). Because of this, fire will behave differently in each fuel type. The CFFDRS defines 18 benchmark fuel types based on boreal forest stand attributes. Fuel types are named to reflect fire behaviour in different vegetation groups. However, since fuel types are used to describe an expected fire behaviour, they may not actually reflect the tree species present within the stand. For example, the C3 (Mature Lodgepole Pine) fuel type does not require exclusively mature pine trees to be present, but rather considers the overall forest and fuel complex, including stand density, arrangement, and continuity. As many of the vegetation communities within BC are not suitably represented by the boreal-based FBP fuel types, fuel types should be regarded as a 'best fit' based on best available scientific research and professional knowledge/experience.

Table 9 outlines the FBP fuel types predominantly present within Electoral Area L. More detailed descriptions of these fuel types can be found on the Natural Resources Canada website.¹²

Table 9. Canadian Fire Behaviour Prediction (FPB) System Fuel Types present within Electoral Area L¹³

CFFDRS Fuel Type	Characteristics and Attributes	Percentage of Electoral Area
C7	<p>Lowest rate of spread and lowest fire intensity of the conifer fuel types.</p> <p>Comprised predominantly of Douglas-fir with minor components of lodgepole pine. Structure is uneven-aged, patchy, with gaps in the overstory. The forest floor primarily composed of perennial grasses.</p>	22%
M-1/2	<p>The rate of spread and intensity of fire depends on the conifer/deciduous mix. Higher conifer mix will have faster rates of spread, higher fire intensity and more embers produced.</p> <p>Characterized by stand mixtures of various coniferous and deciduous species, including spruce, lodgepole pine, subalpine fir, birch, and trembling aspen. Stands exhibit wide variability</p>	21%

¹² [FBP Fuel Type Descriptions](#). Natural Resources Canada.

¹³ [FBP Fuel Type Descriptions](#). Natural Resources Canada.

CFFDRS Fuel Type	Characteristics and Attributes	Percentage of Electoral Area
	<p>in structure and development with anywhere from 25-75% conifer component. Forest floor is comprised of deciduous shrubs and leaf litter. In the summer, when the deciduous overstory and understory are in leaf (M-2), fire spread is greatly reduced, with maximum spread rates only one-fifth that of spring or fall fires under similar burning conditions (M-1 leafless).</p>	
O-1a/b	<p>Grass (O-1a matted grass, O-1b standing grass)</p> <p>Fastest rate of spread potential. Characterized by continuous grass cover, with no more than occasional trees or shrub clumps that do not appreciably affect fire behaviour. Two subtype designations; O1-a for the matted grass condition common after snowmelt or in the spring, and O-1b for standing dead grass common in late summer to early fall</p>	19%
C3	<p>Mature Jack or Lodgepole Pine</p> <p>Capable of spreading the fastest among fuel types but requires higher wind speeds and lower fuel moisture due to its mature attributes and higher crown base height (CBH), described as the distance the lowest branches are from the ground surface.</p> <p>Characterizes as fully stocked mature lodgepole pine stands. The forest floor is covered in a continuous moss layer with sparse to moderate shrub coverage. There is minimal coniferous understory and light and scattered dead and down fuels.</p>	15%
D-1/2	<p>Deciduous (D1 leafless, D2 green)</p> <p>Lower rates of spread, lower ember production and lower fire intensity (than conifer) when trees have leaves (D-2). Often used in urban interface areas to reduce fire behaviour around values.</p> <p>Stands are comprised of >75% deciduous trees and shrubs, including trembling aspen, birch, and cottonwood.</p>	9%
C-2	<p>Boreal Spruce</p> <p>A very volatile fuel type – C-2 produces high intensity and fast-moving fires more easily than other fuel types. Fires can easily become crown fires.</p> <p>Stands are characterized by high-density of conifers, typically spruce, with crowns extending to the ground.</p>	3%
S-1/2	<p>S1 – Jack or Lodgepole Pine Slash</p> <p>Slash resulting from clearcut logging. Slash is typically one-to-two seasons old. Low threshold required for high fire intensity.</p>	1%

CFFDRS Fuel Type	Characteristics and Attributes	Percentage of Electoral Area
S2 - White Spruce – Balsam Slash		

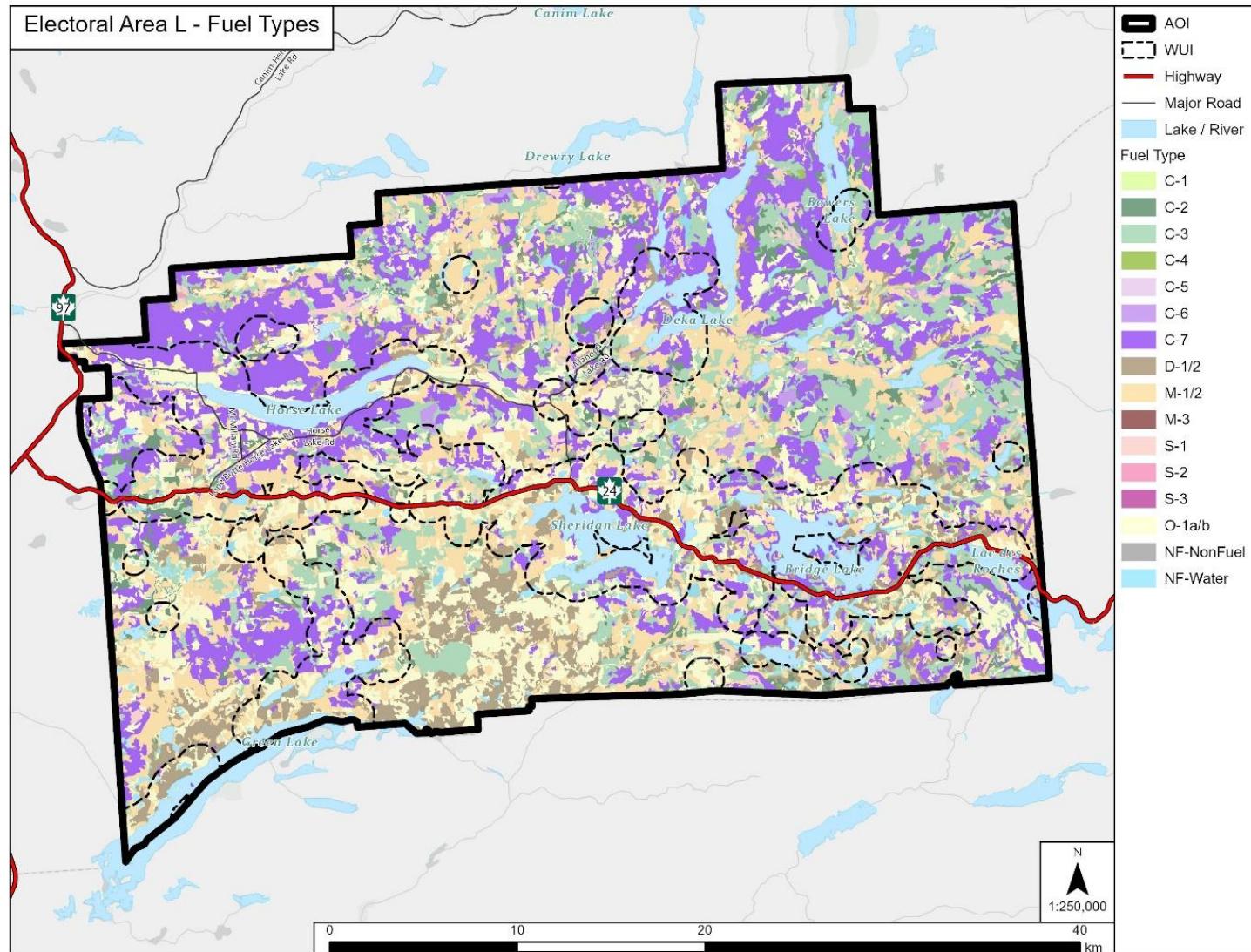


Figure 8: Fire Behaviour Prediction (FBP) Fuel Types present within Electoral Area L.

The most common fuel types found with Electoral Area L are C-7, M-1/2, O-1a/b and C-3, and to a lesser extent, D-1/2, C-2 and S-1/2. Fuel types present representing less than 1% of the area and non-fuel types are not listed. C-7 is the most prominent fuel type representing approximately 22% of the Electoral Area, comprised of uneven-aged Douglas fir stands with minor components of lodgepole pine or spruce and grassy forest floors. Following closely is the grass fuel type, covering 19% of the AOI. The presence and dominance of the C-7 and grass fuel types represent ecosystems adapted to frequent, stand-maintaining surface fires that reduce conifer tree infill and promote patchy, open forests. The M-1/2 fuel type is the second most prominent, covering 21% of the AOI. This fuel type includes mixedwood forests containing a conifer component ranging from 25% to 75% coverage. M-1 describes this fuel type during the spring and fall portions of the fire season when the trees are leafless and fire risk is highest for this fuel type, while M-2 occurs during the leaf-on summer months, when fire risk and spread is reduced.



Figure 9: Example of a C-7 fuel type, found within Electoral Area L.

4.1.2.4 Forest Health

The Cariboo Forest Region has been experiencing a number of forest health challenges over the past decade since the decline of the mountain pine beetle (MPB) epidemic that ravaged the region from the late 1990s through to 2015, causing unprecedented spread, damage and mortality to lodgepole pine-dominant forests. The Cariboo Forest Region is comprised of three Resource Districts/Timber Supply Areas (TSA): Quesnel, Cariboo-Chilcotin (Williams Lake TSA) and 100 Mile. Electoral Area L lies entirely within the 100 Mile Timber Supply Area (TSA).

The 100 Mile TSA has been facing a number of challenges in recent years from natural disturbance impacts, leading to an increase in tree mortality and consequently, a significant decrease in the annual allowable cut (AAC). In addition to MPB, the area in more recent years has seen increases in various other high hazard forest health factors including western spruce budworm, Douglas-fir bark beetle, and spruce beetle. In addition, the 2017, 2018 and 2021 wildfire impacts to the 100 Mile TSA have been significant¹⁴.

Douglas-fir beetle management is the primary focus in the 100 Mile TSA. Post-wildfire, trees that are not immediately killed are often weakened and become more susceptible hosts to Douglas-fir beetles, significantly increasing overall tree mortality. In addition, it is impossible to identify Douglas-fir beetle populations within burned areas from aerial overviews, leading to uncertainty in identifying accurate population sizes and distributions. Various treatments and management activities are taking place including salvage harvesting, strategic harvesting of susceptible stands and beetle trapping programs, among many others to help manage the spread and impact of this pest¹⁴.

Western spruce budworm continues to pose high concern given the widespread coverage of Douglas-fir in the 100 Mile TSA, with extensive tracts of moderate to severe defoliation observed in some areas¹⁴. Despite its name, the preferred host species of the spruce budworm in BC is Douglas-fir, followed by true firs (such as subalpine fir), and to a lesser degree, spruce. Severe defoliation of mature stands does not typically result in mortality in the first year, but mortality can occur after subsequent years of repeated defoliation. Additionally, defoliation stresses the trees and may predispose Douglas fir to attack by Douglas-fir beetle.

The impacts of forest health agents acting on forest stands on the landscape can result in tracts of stressed, declining, or dead trees, which increases the incidence of dry fuels and further exacerbates wildfire hazard. It is also worth noting that Wildfire Risk Reduction projects predominately occur within Douglas-fir dominant stands, resulting in more open forest stands post-treatment. These openings can increase potential for windthrow, therefore monitoring sites post-harvest activities is important for early detection of Douglas-fir beetle. Additionally, the reintroduction of prescribed and cultural burning on the landscape primarily occurs in fire-maintained ecosystems, such as Douglas-fir Forest types. Post-burn monitoring of these sites is important to ensure scorched trees do not induce further stress in the tree and increase Douglas fir beetle populations.

¹⁴https://www2.gov.bc.ca/assets/gov/farming-natural-resources-and-industry/forestry/forest-health/fh-strategies/dmh_forest_health_strategy_2023-24_signed_by_dm.pdf

4.1.3 Weather and Climate

Weather attributes including temperature, relative humidity, precipitation, wind speed and wind direction are critical factors in the ignition, spread, and duration of wildfires. Weather is the most variable component of the wildfire environment, and it has a direct relationship to fuel moisture, which is a crucial determinant of combustibility. Local difference in aspect, topography and vegetation will also influence fuel-moisture at the site level.

Active BC Wildfire Service weather stations located within Electoral Area L have been utilized in the analysis for this CWRP. Weather station information is provided in Table 10.

Table 10. Weather station information for AOI

Weather Station	Lone Butte
Network	BCWS
Coordinates (Lat, Long)	51.51, -121.16
Elevation (m)	1,158

Weather analysis in the following sections utilizes observed data from the Place Lake weather station through the wildfire season months of April to October from 206 to 2024.

4.1.3.1 Temperature

Temperature analysis data from the BCWS Lone Butte weather station (Figure 10) demonstrates that over the past decade although maximum temperatures have occurred in month of June (36.7°C in 2021), on average July and August experience the highest overall temperatures during the wildfire season at 20.6°C and 20.2 °C respectively. The greatest variability occurs in October, with a range of -11.4°C minimum and 22.1°C maximum.

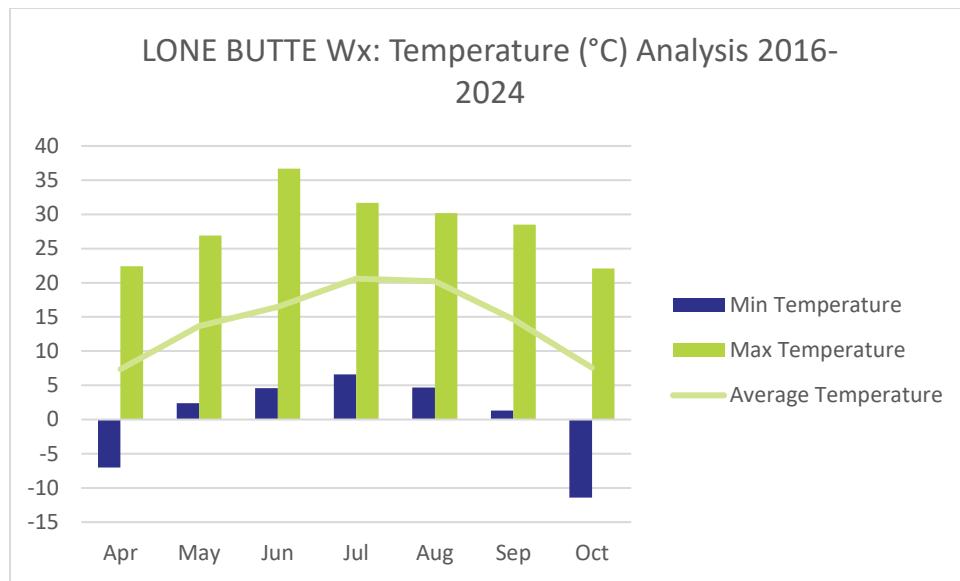


Figure 10: Minimum, Maximum, and Average Temperatures recorded from the BCWS Lone Butte Weather Station from April through October (2016 to 2024)

4.1.3.2 Precipitation

Precipitation analysis data from the BCWS Lone Butte weather station demonstrates that on average, June and July receive the most amount of precipitation during the wildfire season (Figure 11). Notably, April has the lowest average level of precipitation. This demonstrates that April is consistently the driest month of the wildfire season, which can result in moisture deficits leading into the fire season.

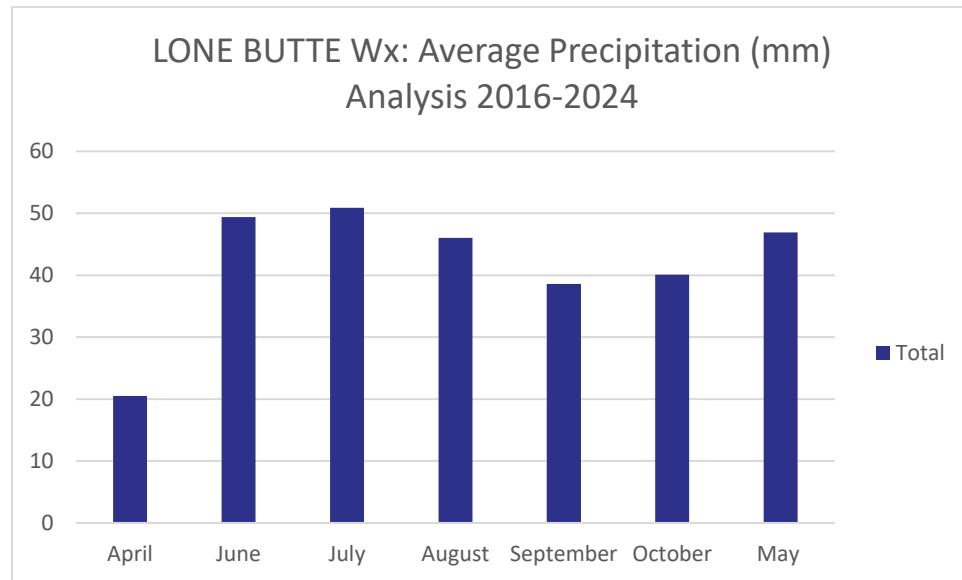


Figure 11: Average Precipitation (mm) recorded from the BCWS Lone Butte Weather Station from April through October (2016 to 2024).

4.1.3.3 Relative Humidity

Relative humidity (RH) is the ratio of the amount of moisture in the air to the amount of moisture necessary to saturate the air at the same temperature and pressure¹⁵. Relative humidity is an important factor influencing wildfire behaviour because dead forest fuels and the air are always exchanging moisture. Low humidity takes moisture from the fuels, and fuels in turn, take moisture from the air when the humidity is high. Therefore, higher relative humidity (above 60%) makes fuels moister and more resistant to ignition, while lower relative humidity (below 30%) dries out fuels, making them more flammable and increasing the risk of fire spread.

RH analysis from the BCWS Lone Butte weather station demonstrates that the lowest average RH is experienced during the months of April and July, with average RH at 43.9% and 44.3% respectively (Figure 12). May, June and August experience similar RH levels to April and July all averaging within the 40% range before RH spikes to >50% in September and October.

¹⁵ US National Park Service website. <https://www.nps.gov/articles/understanding-fire-danger.htm>

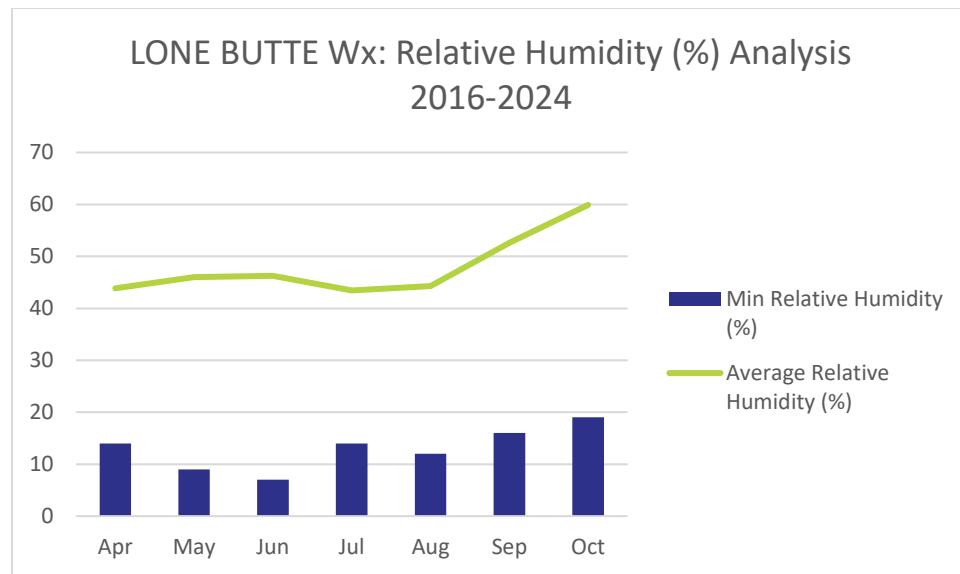


Figure 12: Minimum and Average Relative Humidity (%) recorded from the BCWS Lone Butte Weather Station from April through October (2016 to 2024). Maximum RH is represented at 100% saturation.

When considering recorded trends in temperature, precipitation, and relative humidity from the past decade (since 2016) and the interactions between these components, the months of June, July and August demonstrate the greatest potential for dry conditions catalysing wildfire ignition and spread within the Electoral Area L area. These trends align with regional fire hazard patterns, showing that warming spring days with lower moisture levels result in a buildup of cured, flammable fuels until the green-up phase in late May or June. Cumulative warming from July and August temperatures contribute to late summer drying effects, increasing the availability of combustible fuels in ground, surface, and aerial sources and leading to an increase in potential fire intensity, severity, and difficulty of control in the mid to late summer months.

4.1.3.4 Wind

Wind speed and direction are the most variable factors influencing fire behaviour, contributing to the unpredictability of fire behaviour, intensity, and severity. Over the past decade, wind driven events and observations highlight the importance of readiness for high winds from any direction. While historical data can aid in prioritizing treatment's locations, communities must be prepared for wind-driven fires from any direction.

Wind roses are used as visual tools to illustrate wind speed and direction for a particular location on a monthly basis. In these diagrams, colours indicate Initial Spread Index (ISI), while the area within each cardinal quadrant represents the percentile of wind occurrences driven from a particular direction. ISI is a numeric rating of the expected rate of fire spread based on wind speed and moisture content of fuels¹⁶. Wind data from the Lone Butte weather station is utilized to illustrate local wind patterns applicable to Electoral Area L (Figure 13).

¹⁶ BC Wildfire Service website. <https://www2.gov.bc.ca/gov/content/safety/wildfire-status/prepare/weather-fire-danger/fire-weather/fire-weather-index-system#ISI>

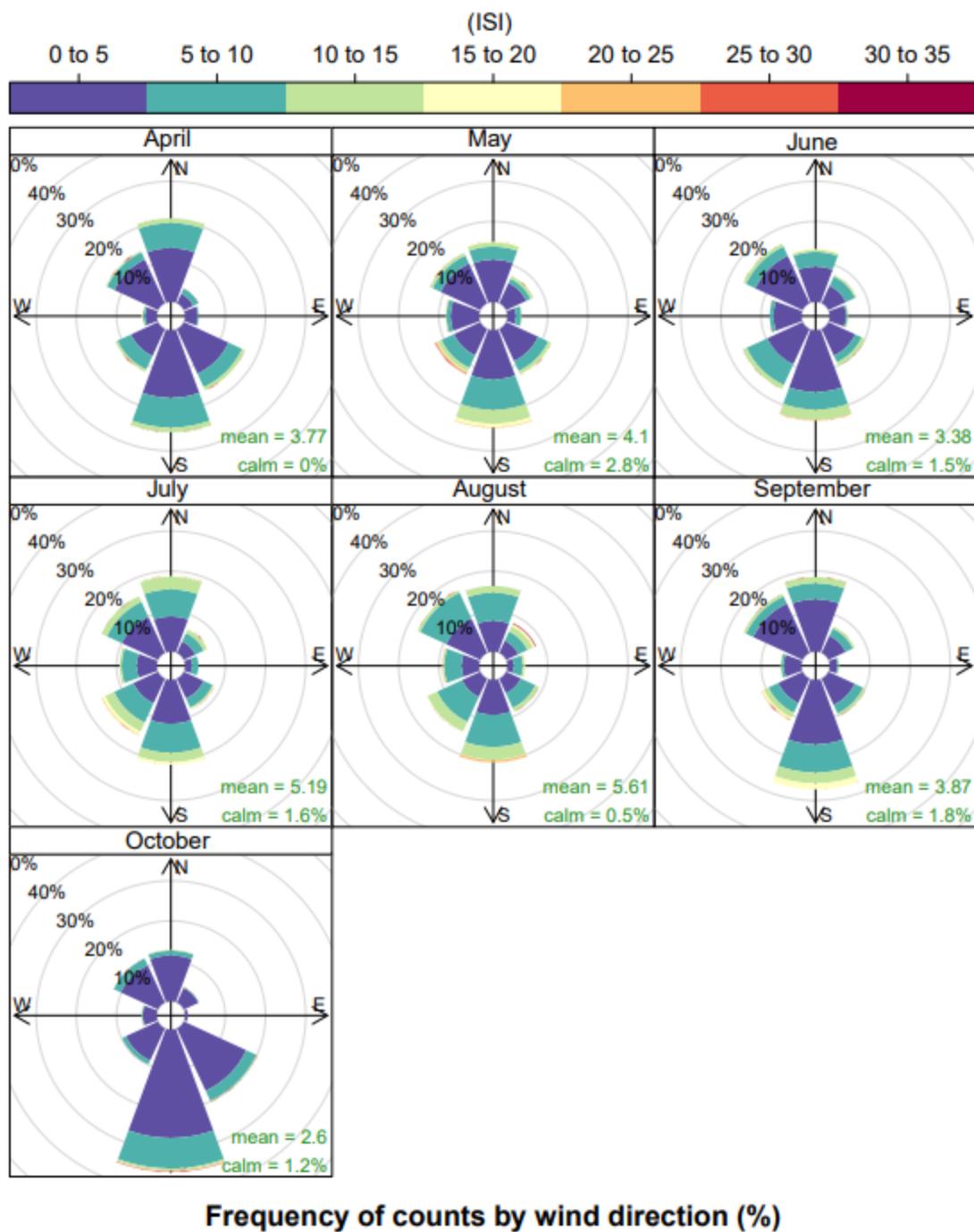


Figure 13: Initial Spread Index Roses for Lone Butte Wx (1996-2015) (BC Wildfire Service)

Illustrated in Figure 13, the predominant wind direction at the Lone butte weather station during the wildfire season is represented predominantly by a southern or north-northeastern wind. July, August and September experience higher wind speeds more frequently than other months as indicated by the greater occurrence of the light green, orange and red. Increased wind speeds during months with higher temperatures and lower precipitation further exacerbate the potential for increased wildfire intensity, spread, and severity.

4.1.3.5 Climate Change

The province of BC has witnessed its most severe wildfire seasons of the last half-century, occurring in 2017, 2018, 2021, 2023, and 2024 all characterized by extreme weather conditions. The recent surge in fire activity is not entirely unexpected, given recent weather extremes. However, what is surprising is the early emergence of increased wildfire activity around 2000 – decades earlier than anticipated from climate models – and the magnitude of fire-season severity. For instance, four of the past eight years saw more than 1 million hectares burned, or more than 1% of the land area, compared to only three wildfire seasons from 1919 to 2016, exceeding 0.5 million hectares. Additionally, the average length of the wildfire season, as inferred from weather records (measured by the number of frost-free days) and the onset of fire activity (defined as the date when 2% of the year's total area burned was reached), has increased by approximately 27 days since the early 20th century¹⁷.

Changes in temperature and precipitation regimes each have important impacts on fire weather. Changing trends in precipitation and temperature alter the risk of extreme wildfires that can result from hot, dry, and windy conditions¹⁸. Understanding changes in both temperature and precipitation trends provides insight into changes in potential wildfire trends. Figure 14 below demonstrates the relationship between weather, vegetation/fuels, and ignition potential, and the impacts to each of these components under a changing climate.

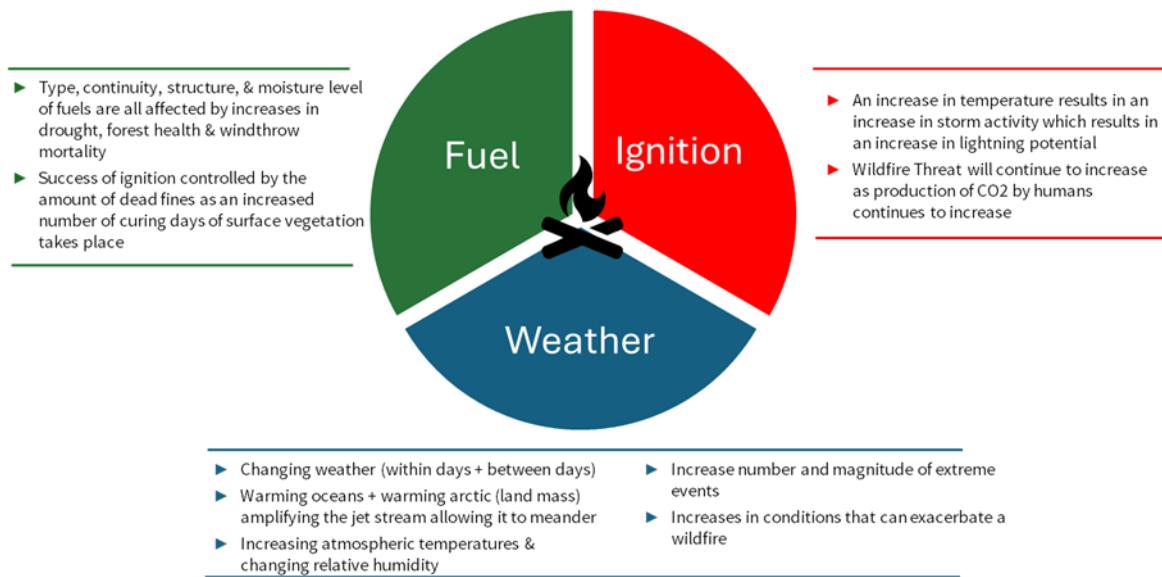


Figure 14: Effects of climate change graphic.

The Pacific Climate Impacts Consortium (PCIC) conducts quantitative studies on the impacts of climate change and climate variability¹⁹. Projected climate change data from the PCIC presents a comprehensive view of potential climate change risks and impacts due to inputs from many raw data sources. Strong trends in temperature and precipitation, as well as an integrated measure of the two, the moisture deficit, have been observed in BC over the past century.

¹⁷ Parisien, M. A., Barber, Q. E., Bourbonnais, M. L., Daniels, L. D., Flannigan, M. D., Gray, R. W., ... & Whitman, E. (2023). Abrupt, climate-induced increase in wildfires in British Columbia since the mid-2000s. *Communications Earth & Environment*, 4(1), 309.

¹⁸ Zhang, X., Flato, G., Kirchmeier-Young, M., Vincent, L., Wan, H., Wang, X., Rong, R., Fyfe, J., Li, G., Kharin, V.V. (2019): Changes in Temperature and Precipitation Across Canada; Chapter 4 in Bush, E. and Lemmen, D.S. (Eds.) Canada's Changing Climate Report. Government of Canada, Ottawa, Ontario, pp 112-193.

¹⁹ [Pacific Climate Impacts Consortium](http://pcic.ca). 2024.

Annual area burned correlates significantly to the climatic moisture deficit (CMD); even when total precipitation levels remain high, rapid warming typically results in increased evapotranspiration demand. It is estimated that for every degree of warming, a minimum increase of 15% in precipitation is required to compensate for increased biomass flammability.²⁰

Table 11 summarizes the projected change in average temperature and precipitation in the Cariboo region for the period of 2021 to 2050, using a baseline average from observed data collected from 1981 to 2010.

Table 11: Projected change in average temperature and precipitation for the Cariboo region.

Climate Variable	Season	Average from 1981 - 2010	Projected change for 2021-2050	
			Low (10 th percentile)	High (90 th percentile)
Temperature	Annual	2.3 °C	+1.3 °C	+2.4 °C
	Summer	11.8 °C	+1.4 °C	+3.0 °C
	Winter	-7.1 °C	+0.0 °C	+1.8 °C
Precipitation	Annual	2.04 mm/day	+2%	+6%
	Summer	1.91 mm/day	-13%	+5%
	Winter	2.25 mm/day	+6%	+18%

Based on the above predictions from the PCIC, by the year 2050 the region will very likely experience an overall increase in temperature annually, and in both the summer and winter months. Average precipitation is projected to increase annually and during the winter months, with variable predictions for the summer months. It is important to note that changes in precipitation exhibit more temporal and regional variation than changes in temperature; therefore, projection results for precipitation have less confidence than projection results for temperature²¹. Overall, winters in the Cariboo region can be expected to become warmer and wetter, while summers will become warmer with uncertainty around changes in precipitation patterns.

Although an increase in precipitation may sound like a potential mitigation outlet to warming temperatures, increasing temperatures will simultaneously increase the rate of evaporation. The increase in precipitation that would be required to offset moisture deficits from evaporation exceeds both projected and reasonable precipitation changes. Therefore, despite an overall predicted increase in annual precipitation, if summers become warmer with similar precipitation patterns, this will lead to drier conditions and have substantial impacts on terrestrial communities and increase drying potential and fire danger.

²⁰ Parisien, M. A., Barber, Q. E., Bourbonnais, M. L., Daniels, L. D., Flannigan, M. D., Gray, R. W., ... & Whitman, E. (2023). Abrupt, climate-induced increase in wildfires in British Columbia since the mid-2000s. *Communications Earth & Environment*, 4(1), 309.

²¹ Zhang, X., Flato, G., Kirchmeier-Young, M., Vincent, L., Wan, H., Wang, X., Rong, R., Fyfe, J., Li, G., Kharin, V.V. (2019): Changes in Temperature and Precipitation Across Canada; Chapter 4 in Bush, E. and Lemmen, D.S. (Eds.) Canada's Changing Climate Report. Government of Canada, Ottawa, Ontario, pp 112-193.

4.2 Wildfire History

Wildfire is a common natural occurrence on the Fraser Plateau that characterizes much of the Cariboo region, including the majority of the western portion of Electoral Area L, while the far eastern portion of Electoral Area L contains the Cariboo Mountains. The vast majority of this region includes fire adapted SBS zones classified as NDT 3, experiencing frequent stand-initiating fires. The western third of the Electoral Area is classed as an NDT 4, IDF zone, experiencing frequent stand-maintaining fires. Additionally, the Cariboo Region experiences some of the highest occurrences of thunderstorms and lightning in BC due to a combination of factors including inland location resulting in greater temperature variations and increased instability in the atmosphere, as well as the mountainous terrain to the west that forces pacific coastal air upwards as it moves inland, cooling and condensing to form clouds and potential storms.

A historical wildfire analysis was conducted for Electoral Area L using fire history data up to the year 2023 from BC Wildfire Service. Table 12 summarizes the number of ignitions, ignition source, and area burned by wildfire within the Electoral Area L AOI since the 1920's when fire data began being recorded.

Table 12. Area burnt within Electoral Area L, summarized by fire cause (lightning vs human)

	Lightning	Person	All
Number of Ignitions	67	355 (144 starts classified "unknown")	421
Total Area Burnt (ha)	3,181.4	30,165.1	33,346.5
Percentage of Area Burned	10%	90%	100%

Since the 1920's, over 33,346ha of area within Electoral Area L has been burned (Figure 15). The vast majority (84%) of recorded wildfire ignitions in Electoral Area L have been determined human-caused - meaning anything not started by lightning - and have contributed to 90% of the total area burned. Most human-caused fires arise from everyday activities such as escaped debris piles, campfires, spark-throwing equipment, or hot exhaust on dry grass, though oddities like wildlife contacting power lines is also considered "human-caused". Locally, the majority of human-caused fires within the Cariboo are a result of debris burning on private properties, particularly in the spring and early summer. While the total human-caused ignitions remain lower than lightning ignition within Electoral Area L, the trend in ignitions data demonstrates frequency of lightning-caused ignitions and human-caused ignitions are slowly increasing on average. In addition, lightning-caused ignitions are also more concentrated in the higher elevations of the Cariboo Mountains, while the more populous lower elevations to the west experience more human-caused ignitions. Province-wide, lightning now accounts for about 60% of starts and roughly 85% of the area burned.

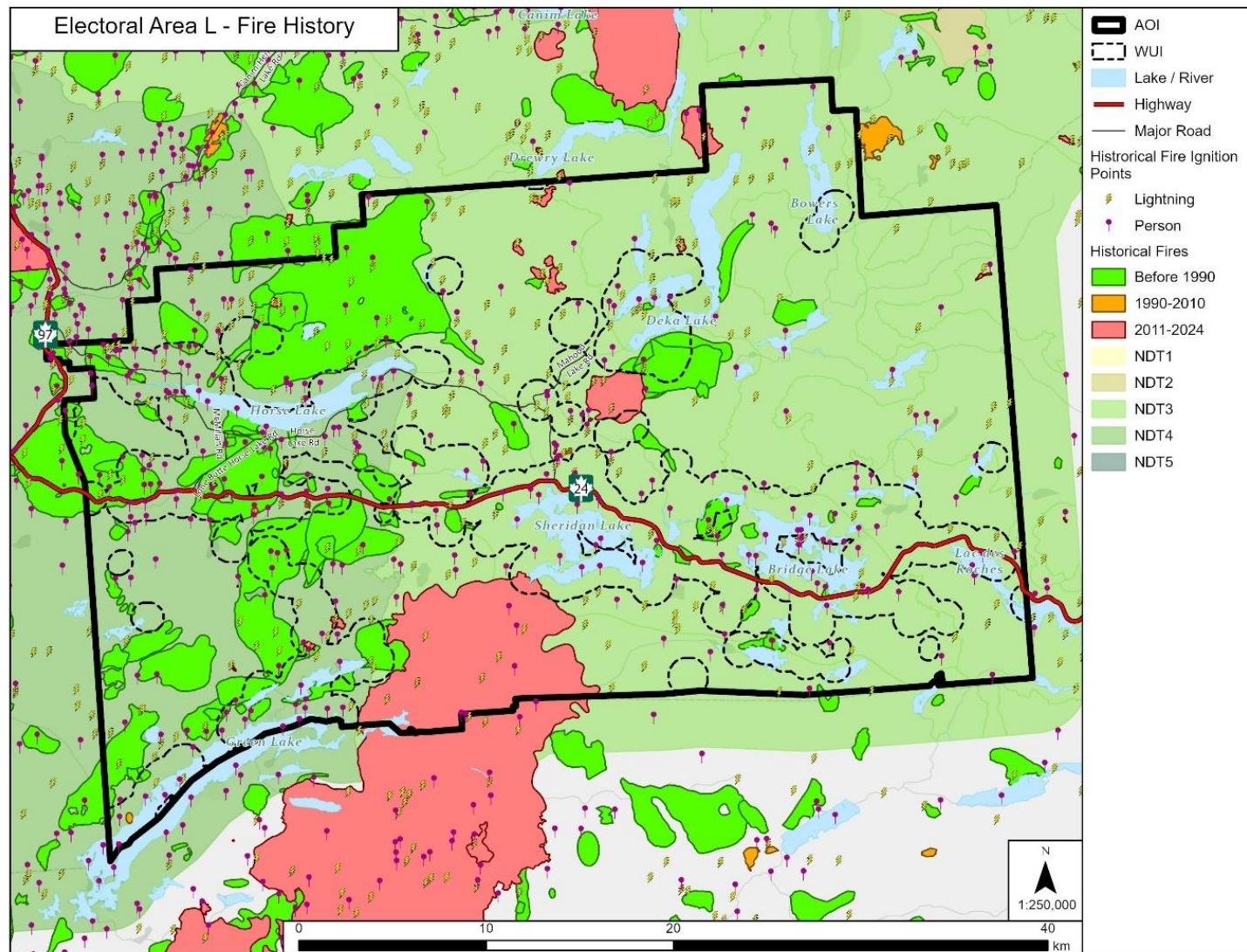


Figure 15: Historical Wildfire Perimeters and Ignition Source Points within Electoral Area L.

4.2.1 Wildfires of Note and Lessons Learned

In 2017, the Cariboo region saw unseasonably hot and dry conditions, as well as record-high Build Up Index (BUI) (numerical rating indicating fuels available for combustion). Remnants of dead pine accumulations from the mountain pine beetle epidemic can still be found on the broader landscape within the Fraser Plateau area of BC. Significant lightning activity on July 7th and 8th caused the ignition of over 190 new wildfires throughout the province, with the majority occurring within the Cariboo. These conditions set the stage for what was to become one of the worst fire seasons on record in BC.

Wildfires of note that have specifically impacted the communities within Electoral Area L of the Cariboo Regional District are summarized below:

- **Elephant Hill (K20637):** Discovered on July 6, 2017, about 2.5 kilometres southwest of Ashcroft, this fire grew to 191,856 hectares reaching the southwestern tip of Sheridan Lake along the fire's northern perimeter. The Elephant Hill fire grew over a 75-day period and required the CRD to issue a series of evacuation orders for the Highway 24 Corridor Area in early September.

Other wildfires events of note that have occurred within the Cariboo Regional District are summarized below:

- **Canim Lake (C41100):** Started by lightning and discovered June 6, 2021, this fire grew to 3,256 hectares, southeast of Canim Lake. This fire required the CRD to issue an evacuation Order for the Canim lake South to Mahood Lake Ares on July 14, 2021.
- **Gustafsen (C40621):** Discovered July 6, 2017, this human-caused fire grew to 5,700 hectares just west of 100 Mile House. The fire required the CRD to issue evacuation Orders for 103 Mile House, 105 Mile House, western side of Lac La Hache, and the 108 Mile Ranch communities. The district of 100 Mile House issued an evacuation Order as well.
- **Central Cariboo Complex:** The Central Cariboo Complex of fires surrounded Williams Lake, Soda Creek and surrounding areas in July of 2017. Combined, the fires covered a span of 31,181 hectares, including an Evacuation Order for the entire city of Williams Lake and surrounding areas (BC Wildfire Service). Two wildfires of note within the Central Cariboo Complex are the White Lake and Wildwood fires.
- **Plateau Complex:** The Plateau Complex of fires on the Chilcotin Plateau covered a combined area of 545,151 hectares, making it one of the largest fires in B.C.'s recorded history. This fire was the result of nearly 20 separate fires merging together. Within the Cariboo Regional District, this fire spanned large areas of Electoral Areas I, J and K.

The 2017 wildfire season resulted in the loss of 227 structures within the Cariboo Regional District, with 60 of those being homes²². The lasting impacts of the 2017 wildfire season within the Cariboo region are still profoundly felt by residents. An *After Action Report* was completed by the CRD Emergency Operations Centre (EOC) following the 2017 wildfire season to document lessons learned, including successes and challenges, and provide recommendations to enhance emergency operations and response capacity within the region. Important take-aways from the After Action Report will be incorporated into this CWRP and its Action Plan.

²² AFTER ACTION REPORT: 2017 Wildfires – Cariboo Regional District EOC. January 2018

4.3 Provincial Strategic Threat Analysis (PSTA)

The BC Wildfire Service developed the Provincial Strategic Threat Analysis (PSTA) and Risk Class framework as provincial spatial datasets to evaluate and forecast potential wildfire threats. Leveraging provincial fuel type mapping, historical fire occurrence data, topography, and historical weather station data, the PSTA generates a wildfire threat score. Outputs from the PSTA include information and maps delineating historical fire density, the potential for embers to land in an area (spotting impact), head fire intensity, and overall wildfire threat. Further details regarding the derivation of the PSTA dataset are available through the BC Wildfire Service.

A spatial analysis of the most recent (2021) PSTA data within the 1-kilometre eligible WUI in Electoral Area L was completed and is summarized in Table 15 below. The WUI fire threat within Electoral Area L is distributed across the classes, with the High Fire Threat Class being the greatest at 16% of the WUI (Figure 15). These areas are represented by coniferous dominant forested stands and flammable grasses. Notably, a significant proportion of the WUI, 45%, is occupied by private land which gets classified as “No Data” in the PSTA dataset. This underscores the importance of FireSmart engagement and participation by communities and residents, as reducing wildfire risk is a shared responsibility that begins with private landowners at the home level.

Table 13. PSTA Fire Threat class and associated areas and proportions for the Electoral Area L WUI

Fire Threat Class	Area (HA)	Percentage (%)
No Data (Private Land)	20,186.1	45%
Extreme	4,361.0	10%
High	7,312.2	16%
Moderate	5,239.8	11%
Low	386.8	1%
Water	7790.9	17%
Total	45,276.80	100%

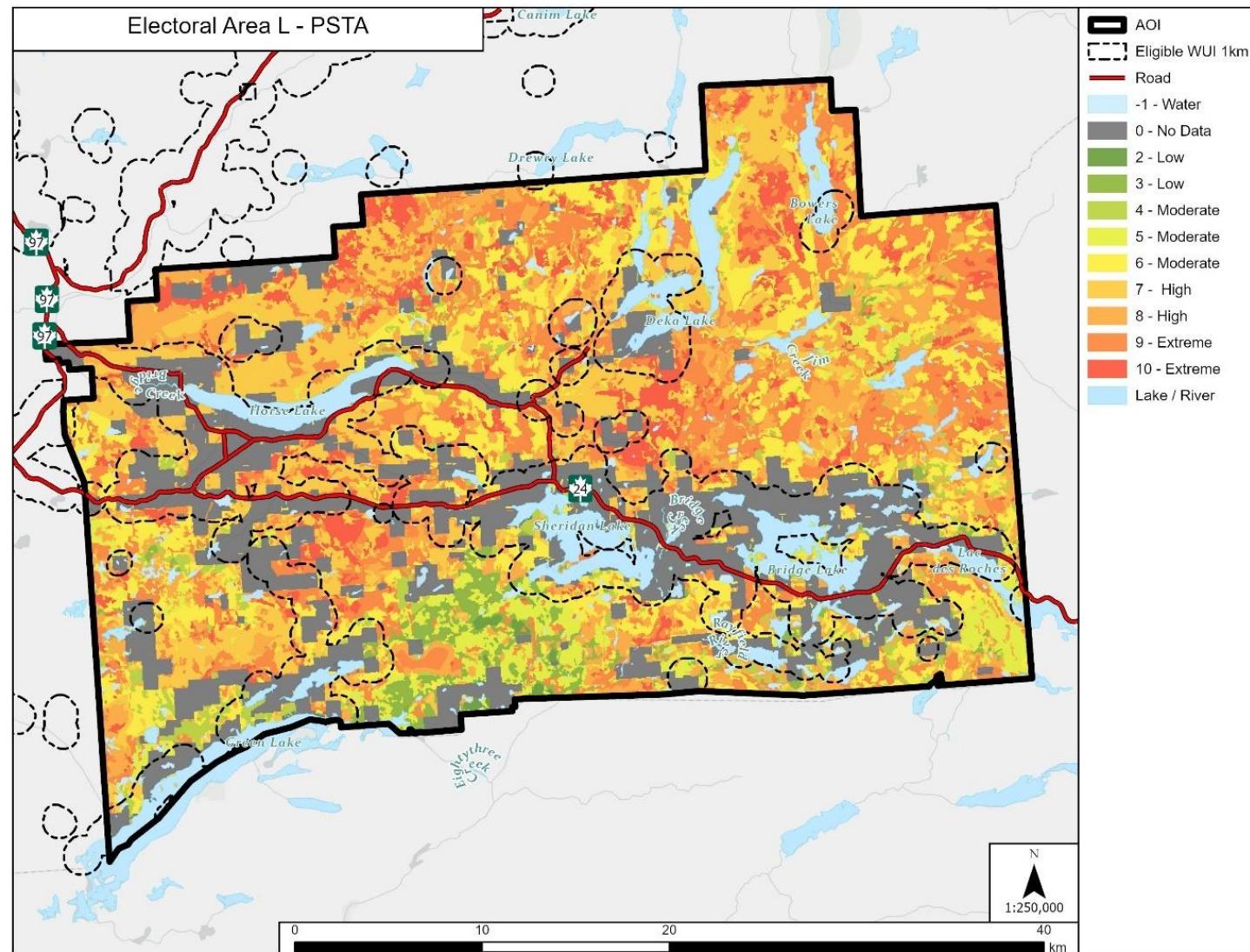


Figure 16: PSTA Fire Threat Class within Electoral Area L.

4.4 Hazard, Risk, and Vulnerability Analysis

The Hazard, Risk, and Vulnerability Analysis (HRVA) is an organized process to identify hazards that may trigger an emergency response and assign a hazard rating based on the likelihood and potential consequences of those hazards. Understanding local hazards and risks helps a community establish priorities, plans and strategies to prevent or reduce the risks. Hazard-specific guides provide additional guidance for responding to specific emergency situations and address the essential operational actions to facilitate effective response to that specified emergency event.

An HRVA was completed for the Cariboo Regional District utilizing the BC Provincial Emergency Program HRVA online tool²³. The results of the HRVA are included in the CRD Emergency Plan (2006). Interface and wildland fires are identified as the highest risk hazard events for the CRD. The Emergency Plan states that a more detailed and thorough contingency plan will be developed for the top three identified risks. Local Evacuation Plans were developed for 103 Mile House, 105 Mile House, and 108 Mile House. However, there have been no detailed local plans developed for any of the Electoral Area L communities.

4.5 Local Wildfire Threat Assessment

Part of the process of developing this CWRP involved on-the-ground verification and assessment of local vegetation types and the inherent wildfire threat of forested areas within and surrounding the eligible WUI. Wildfire threat is assessed using the Wildfire Threat Assessment (WTA) tool developed by BC Wildfire Service which focuses on assessing forest stand attributes and fuel structure that contribute to wildfire intensity and spread, independent of fire weather. Wildfire threat differs from wildfire risk in that fire threat classification does not take into account proximity to values or the consequence of damage to those values in a wildfire event.

Field verification and wildfire threat analyses were completed in June 2025 on provincial crown land within the 1-kilometre eligible WUI throughout Electoral Area L. A total of 40 WTAs were completed throughout Electoral Area L. Table 14 outlines the threat rating results of completed WTAs.

Table 14: Summary of Wildfire Threat Assessments completed throughout the Electoral Area L Wildland Urban Interface

Wildfire Threat Assessment Rating	Number of WTAs	Percentage of all WTAs Completed with EA
Extreme	8	20%
High	16	40%
Moderate	14	35%
Low	2	5%

²³ BC Government – Emergency Plan Assessment Tools. <https://www2.gov.bc.ca/gov/content/safety/emergency-management/local-emergency-programs/establishing-an-emergency-program/assessment-analysis#hrva>

The greatest number of WTAs completed in Electoral Area L are represented as a **High** wildfire threat rating class, contributing 40%. These areas mainly included conifer types that experienced an overall high understory (800-1,200 sph or greater) and/or moderate to high overstory (600-900, 900-1,200 sph) density with a minimal gap (<3m) between surface and aerial (crown) fuels. 20% of the area surveyed was classed as a **Moderate** treat rating. These areas mainly consisted of conifer stands as well, but with lower understory densities (500-800 sph) and overstory densities (400-600 or 600-900 sph). 20% of areas assessed were classified as an **Extreme** wildfire threat rating. These areas were all represented by conifer dominant stands with high to very high understory density (1,200-1,500 or >1,500 sph) and many with a moderate overstory density (600-900 sph), represented by C-3 and C-7 fuel types, which are adapted to experiencing frequent stand-replacing and stand-maintaining fires, respectively.

The local WTA sample results completed within the WUI differ from the spatially-driven PSTA analysis outputs for Electoral Area L, where only 10% as of the WUI was classified as Extreme, 16% as High, and 11% as Moderate (see Section 4.3). This underscores the importance of field assessment and verification when determining local wildfire threat and potential fire behaviour. Overall, forested areas within Electoral Area L were best represented as a Moderate to High wildfire threat due to the presence of moderate to high stem densities in conifer-dominant stands and low surface to crown fuel gaps.

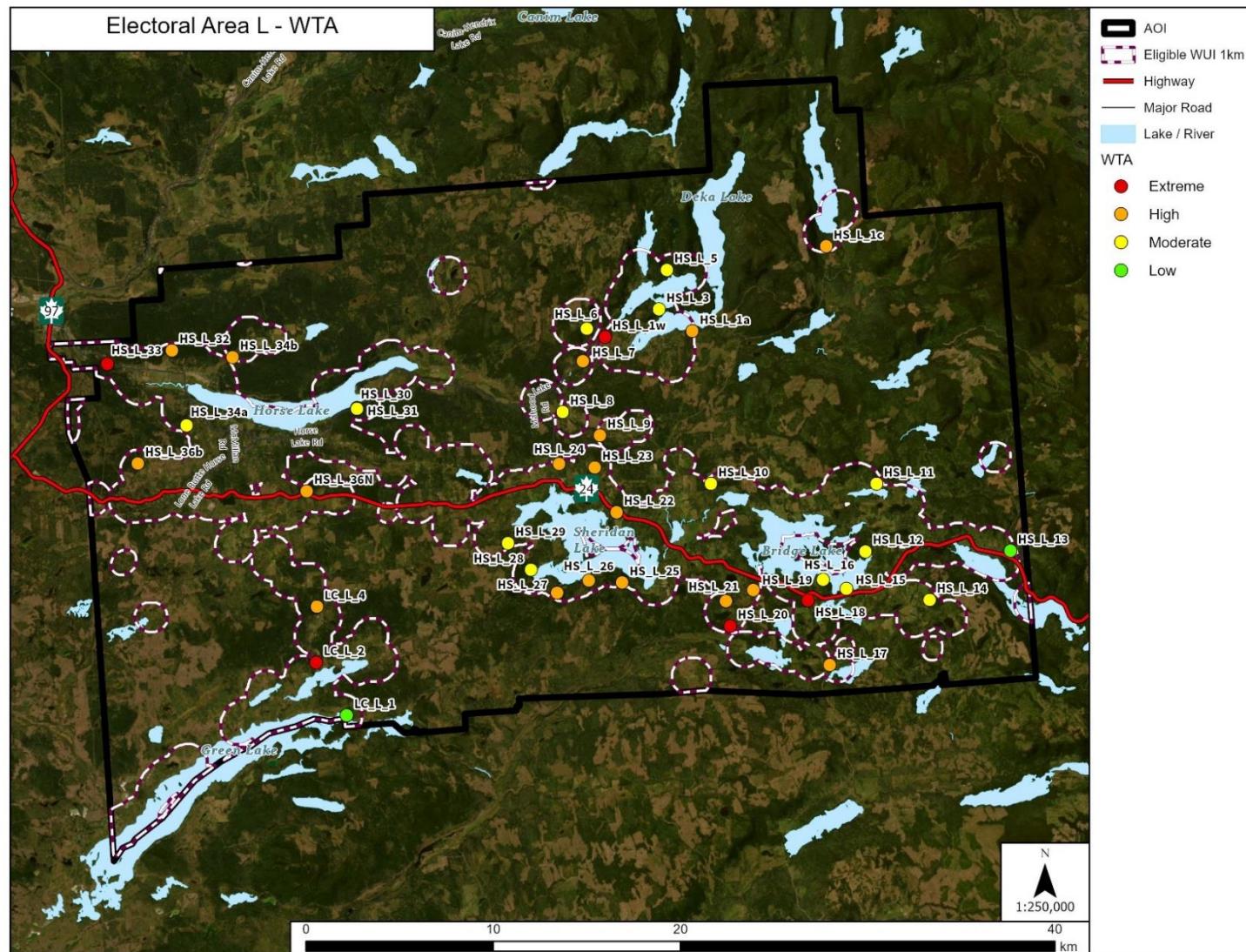


Figure 17: Wildfire Threat Assessments completed on provincial crown land within the WUI for Electoral Area L

5.0 FireSmart Disciplines

This CWRP is designed to comprehensively plan for all aspects of community wildfire planning by structuring strategies based on the seven FireSmart disciplines:

1. Education
2. Legislation and Planning
3. Development Considerations
4. Interagency Cooperation
5. Cross – Training
6. Emergency Planning
7. Vegetation Management

Each FireSmart discipline and their role in resiliency planning for the Cariboo Regional District are outlined in the subsequent sections below.²⁴

NEW in 2024 Starting in 2024 as per the *FireSmart Community Funding & Supports Program and Application Guide* (February 2024) it will be required for all applicants to have the following FireSmart components developed/active in their community:

- FireSmart Position
- Community FireSmart and Resiliency Committee
- Current Community Wildfire Resiliency Plan²⁵

The purpose of the FireSmart Coordinator is to ensure that FireSmart activities are supported, developed, and implemented in accordance with Provincial guidelines as well as with the direction and policy provided by the Regional District. FireSmart Coordinators are an integral part of wildfire risk reduction and act as the main point of contact linking local government, the public, and the provincial FireSmart Program. The FireSmart Coordinator is responsible for organizing and implementing the action items and initiatives identified within this CWRP.

²⁴ For more information on the BC FireSmart program, visit: <https://firesmartbc.ca/>

²⁵ For more information regarding FireSmart Community Funding & Supports Program visit: <https://www.ubcm.ca/cri/firesmart-community-funding-supports>

5.1 Education

Public education and outreach efforts help community members learn about wildfire and its potential impacts to their communities. In addition, these efforts should be designed to help individuals understand their role in taking action to reduce risk. Education and outreach activities are designed for all groups to benefit, including elected officials, community planners, residents, visitors, businesses, land managers, first responders, and more.

Goal: This CWRP aims to establish effective FireSmart educational activities and strategies so community members within CRD Electoral Area L understand the potential risk of interface wildfire and can play an active role to reduce that risk.

Context: The CWRP is only successful if community members and stakeholders are collectively engaged in taking action to reduce wildfire risk at the individual and community level. To enhance community engagement and education, several outreach tools and tactics can be employed, including:

- Hosting community FireSmart events including:
 - Wildfire Community Preparedness Day,
 - Farm and Ranch Wildfire Preparedness workshop,
 - Neighbourhood Champion workshop,
 - FireSmart booths at community events,
 - Wildfire season open houses at fire halls.
- Distributing informational pamphlets and promotional items to residents during public events.
- Utilizing social media platforms to share FireSmart resources, tips and updates.
- Collaborating with local schools to integrate the FireSmart BC Education Program into curriculum or extracurricular activities.
- Conducting FireSmart Home Assessments or Farm and Ranch Assessments for private landowners and providing personalized recommendations for wildfire mitigation measures.
- Supporting neighbourhoods in receiving FireSmart Neighbourhood Recognition.

Current Status: The Cariboo Regional District has been working on building their FireSmart education program. The CRD website has a webpage dedicated to sharing FireSmart resources, initiatives being undertaken by the CRD, and requests to have a free FireSmart Home Ignition Zone (HIZ) Assessment completed for private properties. The CRD currently has a full-time FireSmart coordinator who has undertaken a number of FireSmart education and engagement activities and initiatives. During the summer of 2025, a seasonal Junior FireSmart Coordinator was also hired to help implement FireSmart engagement activities. The current CRD FireSmart Education Program includes:

- Completing FireSmart HIZ Assessments for property owners throughout the CRD,
- Attending various community events and gatherings with a FireSmart booth or presentation (Farmer's Markets, Farm Prep Days, etc.),
- Organizing FireSmart public engagement events based on public requests,

- Advertising FireSmart resources and events on the CRD website and through the CRD social media coordinator,
- Implementing a summer youth program and FireSmart library program.

The most successful component of the CRD's FireSmart Education Program to date has been requests by residents for completion of a FireSmart HIZ Assessment. The FireSmart Coordinator's goal for 2025 was to gain interest from 100 homeowners to complete HIZ Assessments. Over 90 homeowner HIZ Assessment requests were received, and over 50 have been completed to date. Living in a fire-prone region, many CRD residents are cognizant of the hazards around their homes and have shown genuine interest in implementing FireSmart recommendations. Overall, interactions during the FireSmart HIZ Assessments have been positive and important one on one learning opportunities with residents.

Residents are also offered the option to have a follow up FireSmart HIZ Assessment completed after they have implemented recommendations from the initial assessment; a few follow up assessments have been requested to date. A common barrier for residents wanting to implement FireSmart activities around their properties has been the financial burden of retrofit projects, as well as limited resources for remote areas (skills, machinery, building materials, etc.). There is a large proportion of aging or vulnerable populations throughout the CRD that are unable to undertake FireSmart activities on their own. Currently, the only incentive offered by the CRD to incentivize or help subsidize the financial costs to private property owners completing FireSmart activities is through the waiving of tipping fees to offload wood waste generated from FireSmart activities. Opportunity exists for the CRD to explore additional FireSmart incentive programs.

To date, there have been no communities or neighbourhoods within the CRD that have received FireSmart Canada Neighbourhood Recognition. The CRD FireSmart Coordinator has promoted the recognition program and is keen to support neighbourhoods in their journey towards receiving recognition, however, there have been program requirements that have proven difficult for neighbourhoods to navigate and coordinate around.

The CRD has previously offered "Bin Days" for communities, where logs from vegetation and tree removal on private property are picked up for free and brought to the pulp mill in Quesnel. The CRD landfill and transfer station sites are currently over capacity for accepting wood/vegetation waste. As a result, transporting chipped or whole biomass to these sites is not currently a feasible option. Alternative opportunities to assist in vegetation removal from private properties are currently being explored.

Overall, public engagement throughout the CRD has been most successful with both the retiree age class and school-aged children. Efforts have been made by the FireSmart Coordinator to increase engagement and interest among youth and working age class residents. This includes creating fun and interactive displays for the FireSmart booth, handing out children's FireSmart promotional items, attending the Children's Festival, and implementing a FireSmart library program. Increasing overall engagement with residents of different age classes is a current priority for the CRD FireSmart Program.

Actions: The following are recommended action items for the CRD to further increase FireSmart awareness, education, and action within Electoral Area L communities.

Action Number	Action/Recommendation	Priority Level
Action #1	Read and understand this CWRP's identified risks and recommended actions.	Very High
Action #2	Develop a FireSmart public communication plan/strategy to effectively plan and monitor annual FireSmart educational strategies and activities for the entirety of the CRD.	Very High
Action #3	Continue to employ a full-time FireSmart Coordinator. This position runs all aspects of the FireSmart program and generally is in charge of actioning many aspects of this CWRP.	Very High
Action #4	Continue to organize and hold a variety of FireSmart events throughout the CRD. Event types include but are not limited to a Wildfire Community Preparedness Day, Farm and Ranch Wildfire Preparedness Workshop, Neighbourhood Champion workshop, or Fire Hall open house.	Very High
Action #5	Continue to encourage and promote residents to have a Local FireSmart Representative (LFR) complete a FireSmart Home Ignition Zone (HIZ) Assessment or Farm and Ranch Assessment for their home/property. Based on the outcome of the Assessments, encourage property owners to implement as many mitigation activities as possible.	Very High
Action #6	Promote and encourage all agricultural/ farm/ranch landowners to develop a Farm/Ranch Wildfire Preparedness Plan for their properties. These Wildfire Plans will allow farmers/ranchers to be better prepared to take effective action during wildfires, identify risk reduction priorities to complete such as removing fuels or setting up sprinklers, and share important information with those involved in wildfire response, such as the BCWS.	Very High
Action #7	Develop and offer a local FireSmart Rebate Program to residential property or homeowners that complete eligible FireSmart activities from their FireSmart HIZ Assessment. This provides incentive and assists with the financial barriers of implementing FireSmart activities on private land.	Very High
Action #8	Continue to waive tipping fees for residential, FireSmart generated wood waste. Consider organizing Community Chipper Days/ Community Waste Disposal/ Bin Days for residents, particularly those that may have difficulty accessing the landfill (e.g. vulnerable populations). This will encourage and aid residents with removal of hazardous vegetation and debris around their homes.	High

Action Number	Action/Recommendation	Priority Level
Action #9	Inform communities of upcoming FireSmart events and other fire/emergency management related updates via a variety of communication platforms including social media groups, the CRD website, posters, community and school newsletters, etc.	High
Action #10	Promote and encourage neighbourhoods to work together to implement FireSmart activities at a neighbourhood level and apply for the FireSmart Canada's Neighbourhood Recognition Program. Once recognized, annually renew for FireSmart Recognition is required.	Moderate
Action #11	Work with School Division 27 to incorporate the FireSmart BC Education Program ³ at local schools. This includes promotional materials for contests, banners, and targeted education events at schools to promote the education program curriculum.	Moderate
Action #12	Distribute Educational Materials to the public to support the development of prescribed fire and cultural burning programs.	Low

5.2 Legislation and Planning

Legislation and Regulation can be a very effective tool for reducing wildfire risk on provincial crown lands and within the administrative boundaries of a local government or First Nation communities. Provincial acts and regulations provide the means for local governments and First Nation communities to implement wildfire risk reduction actions through bylaws.

Goal: The goal is to facilitate an understanding of how local/municipal, provincial, and federal legislation can either support or restrict the ability to implement local wildfire risk reduction policies and bylaws.

Context: Several types of provincial and federal legislation, including acts and regulations, play a role in supporting or influencing the CWRP process and implementation. A comprehensive list of existing relevant bylaws, provincial, and federal regulations and legislation is available in more detail in *Appendix F: Key Provincial and Federal Acts and Regulations, and Additional Resources for FireSmart Disciplines*.

Official Community Plans (OCPs) manage all aspects of local community planning and development and establish objectives and policies used to guide land use decisions. They are important planning documents for establishing proactive mitigation measures for local hazards such as wildfire through the establishment of policies, development permits, and bylaws.

Current Status: The CRD has multiple relevant legally enforceable planning documents and local bylaws regulating community planning, development, and fire protection.

South Cariboo Area Official Community Plan Bylaw No. 5171 (2018): The South Cariboo Area OCP provides a statement of objectives and policies of the CRD to guide decisions on planning and land use management in the South Cariboo plan area. The South Cariboo plan area includes portions of Electoral Areas G, H and L. For Electoral Area G, this includes 93 Mile and 108 Mile Ranch and surrounding areas. The following sections specifically pertain to wildfire:

- *Section 1.4 General Implementation*
The OCP allows for the *Development Approval Information Bylaw No. 5008 (2016)*, which applies to all lands within the OCP Bylaw area, the authority to require an applicant to provide information on the impact of the development that is the subject of the application. The Development Approval Information Bylaw specifies the matters for which additional on-site and off-site information may be required, including issues such as an assessment of the wildfire interface.
- *Section 8.3.17 Residential Policies: Hazard and Conflict Mitigation*
The CRD Board Will:
 - Support the design of new neighbourhoods to meet FireSmart guidelines
 - Require a wildfire hazard assessment and mitigation strategy prepared by a qualified professional to ensure the wildfire hazard to the property owner is minimized prior to approval of a rezoning application or subdivision of three or more lots in an area with high or extreme wildfire hazard rating.

However, areas of high or extreme wildfire are not spatially delineated or included within the accompanying schedules within the South Cariboo OCP.

Green Lake and Area Official Community Plan Bylaw No. 4641 (2012): The Green Lake and Area OCP provide objectives and policies to guide decisions on planning and land use management in the Green Lake and Area plan area. The Green Lake and Area plan area includes portions of Electoral Areas G and L. For Electoral Area G, this includes a small area west of Green Lake and southeast of Flat Lake Provincial Park.

Planning policies guide decisions to be made by the CRD Board of Directors when considering applications for various types of development. Wildfire is identified within the OCP as a major hazard for the plan area as a result of widespread tree mortality increasing fuel loading and climate change increasing drought severity. The following sections specifically pertain to wildfire:

- *Sections 13.3-10 Potential Hazard Areas: Policies*

Highlights for objectives and policies under this section include the following:

- Areas of High Wildfire Probability (High, Very High and Extreme) are spatially delineated in Schedule G.
- Prior to undertaking any subdivision or land use development that will create four or more parcels or dwelling units within a **High** wildfire hazard area, the landowner shall provide the Regional District with a Wildfire Hazard Assessment Report for the proposed development, prepared by a Registered Professional Forester licensed in BC or an equivalent qualified professional. The Wildfire Hazard Assessment Report shall: assess the current wildfire hazard, assess conditions on the site and neighbouring lands, evaluate the proposed development for wildfire susceptibility, and provide FireSmart wildfire hazard mitigation recommendations to reduce the hazard of wildfire for the land and buildings to moderate or lower. The recommendations of the Wildfire Hazard Assessment Report shall be implemented during development and written into a restrictive covenant to be registered on a property title advising the property owner of the ongoing responsibility to manage their land and buildings in accordance with the recommendations of the Wildfire Hazard Report.
- For any subdivision or land use development that will create fewer than four parcels or dwelling units in a **high** wildfire hazard area, and for any subdivision or land use development in a **moderate** wildfire hazard area, the property owner shall register a standard restrictive covenant on the property title encouraging land owners to use FireSmart wildfire mitigation practices for building construction and land management to reduce the wildfire hazard in their development.
- The OCP allows for the *Development Approval Information Bylaw No. 5008 (2016)*, which applies to all lands within the OCP Bylaw area, the authority to require an applicant to provide information on the impact of the development that is the subject of the application. The Development Approval Information Bylaw specifies the matters for which additional on-site and off-site information may be required, including issues such as an assessment of the wildfire interface.

- Section 20.1.5(e) Riparian Development Permit Area: Exemptions

The following activities are exempt from any requirement for a development permit:

- removal of trees deemed hazardous by a certified arborist or Registered Professional Forester that pose an immediate threat to buildings, life safety or in accordance with provincial “FireSmart” standards.

Interlakes Area Official Community Plan Bylaw No. 3906 (2004): The Interlakes Area OCP provides broad objectives and policies regarding the form and character of land uses within the portion of Interlakes in Electoral Area L to which this plan applies. The Interlakes Area OCP includes the areas surrounding Deka lake, Sheridan Lake and Bridge Lake, bordering the South Cariboo and Green Lake and Area OCPs in the west and the Thompson-Nicola Regional District (TNRD) to the southeast.

The OCP allows for the *Development Approval Information Bylaw No. 5008 (2016)*, which applies to all lands within the OCP Bylaw area, the authority to require an applicant to provide additional information on the impact of the development that is the subject of the application. The Development Approval Information Bylaw specifies the matters for which additional on-site and off-site information may be required, including issues such as an assessment of the wildfire interface.

Within the Interlakes OCP, there are no specific objectives or policies pertaining to wildfire hazard. Additionally, Development Permit Areas for wildfire hazard are not established or delineated.

South Cariboo Area Rural Land Use Bylaw No. 3501 (2000): The Rural Land Use Bylaw (RLUB) defines the regulations and provisions of the Cariboo Regional District Board of Directors respecting land use and development in the areas of Electoral Area G, H, and L not covered under existing OCPs or settlement plans. The current RLUB does not identify wildfire as a potential hazard area or establish any regulations pertaining to wildfire hazard in land use or development planning.

Cariboo Regional District South Cariboo Area Zoning Bylaw No. 3501 (1999): This Zoning Bylaw establishes land use regulations that are to be consistent with existing official community plans and settlement plan policies for the South Cariboo Planning Area. The South Cariboo Planning Area contains Electoral Areas G, H and L in the Cariboo Regional District.

Cariboo Regional District Fire Departments Bylaw No. 5014 (2016): Identifies the fire protection areas, operational responsibilities, authorities, and level of required training for CRD Fire Departments and the designated Fire Chiefs. It is important to note that the jurisdiction of these fire departments does not extend past the predetermined Fire Protection Area (FPA) boundary, without the written approval of the CRD Board. The bylaw gives the Fire Chief and members of the Fire Departments the authority to cause actions necessary to deal with an incident, such as to prevent the spread of a fire.

Cariboo Regional District Untidy and Unsightly Premises Regulatory Bylaw No. 4628 (2011): Identifies the legal requirement for property owners to maintain tidy and slightly properties and manage accumulation of filth, discarded materials, rubbish or unsightly materials of any kind. This Bylaw could be further bolstered and utilized to enforce FireSmart principles relating to flammable debris located in the first 10 metres of homes.

Actions: The CRD should consider developing and implementing additional local regulatory requirements relating to planning for Electoral Area L that incorporates further wildfire risk reduction principles:

Action Number	Action/Recommendation	Priority Level
Action #13	Ensure that going forward, planning and development throughout the CRD considers wildfire risk in all aspects. This includes ensuring all local emergency and development plans and bylaws are developed, updated, or amended to align with wildfire risk reduction and FireSmart principles.	Very High

Action Number	Action/Recommendation	Priority Level
Action #14	<p>Amend the Interlakes Area OCP to include specific sections pertaining to wildfire policies and objectives, and consider including the following:</p> <ul style="list-style-type: none"> Establish specific objectives and policies within the OCP pertaining to wildfire hazard. Establish Wildfire Hazard Development Permit Areas that may require development permit approval based on FireSmart guidelines. Consider writing into bylaw to integrate wildfire hazard mitigation into regulatory planning processes. Mapping of spatially delineated areas identifying moderate, high and extreme wildfire hazard within the WUI. Include FireSmart design requirements for single building development within the WUI. 	Very High
Action #15	<p>Amend the South Cariboo Area OCP sections pertaining to wildfire policies and objectives, and consider including the following:</p> <ul style="list-style-type: none"> Establish Wildfire Development Permit Areas that may require development permit approval based on FireSmart guidelines. Consider writing into bylaw to integrate wildfire hazard mitigation into regulatory planning processes Mapping of spatially delineated areas identifying moderate, high and extreme wildfire hazard within the WUI. Include FireSmart design requirements for single building development within the WUI. 	High
Action #16	<p>Amend the Green Lake Area OCP sections pertaining to wildfire policies and objectives and consider including the following:</p> <ul style="list-style-type: none"> Establish Wildfire Development Permit Areas that may require development permit approval based on FireSmart guidelines. Consider writing into bylaw to integrate wildfire hazard mitigation into regulatory planning processes. Update mapping of areas identifying moderate, high and extreme wildfire hazard within the WUI. Include FireSmart design requirements for single building development within the WUI. 	High
Action #17	<p>To assist the CRD in covering Wildfire Hazard DPA administrative permitting costs, update Development Procedures and Fees Bylaw 5458 to:</p> <ul style="list-style-type: none"> include 'wildfire hazard' as item (e) in Section 4; and part of the list in Section 8(c); set fees for the processing and approval of wildfire hazard assessment and post-development inspection reports; and stipulate the amount of holdback monies held by the CRD to be released upon compliance. 	High

5.3 Development Considerations

Development decisions, such as land use types, structure density, road patterns, and other considerations, shape the built and natural environments. These decisions can bring lasting impacts to the WUI and wildfire risk by affecting public and first responder safety and survivability of homes, critical infrastructure, and other community features. Considering these factors early in the development process can reduce wildfire risk to life safety and property.

Goal: To utilize regulatory and administrative tools to guide new development and increase the number of homes and infrastructure compliant with FireSmart principles.

Context: In BC, communities can establish Development Permit Areas (DPAs) that incorporate wildfire risk into construction and development. This tool can effectively enhance wildfire preparedness and mitigation by addressing development factors like subdivision layouts, fire-resistant building materials, and landscaping. Wildfire Hazard Development Permit Areas are typically delineated in fringe areas around a community where development occurs within or near the wildland urban interface. Development considerations could include the following:

- **Wildfire Hazard Assessment:** Require completion of a wildfire hazard assessment by a qualified professional (e.g. Registered Forest Professional) prior to the development of new neighbourhoods, subdivisions, or primary residences.
- **Landscaping:** Utilize FireSmart approved vegetation and spacing in landscaping within the Home Ignition Zones. Prohibit the use of cedar hedging as a form of privacy screening.
- **Building Materials:** Utilize fire-resistant building materials and construction techniques recommended by FireSmart, such as non-combustible roofing materials, fire-rated siding, and ember-resistant vents.
- **Community Planning** – integrate FireSmart principles into community planning and zoning regulations to promote wildfire-resilient design and minimize the overall risk of wildfire to neighbourhoods and developments.

Current Status: The Interlakes Area and South Cariboo Area OCP's both currently contain statements to allow for the implementation of the *Development Approval Information Bylaw No. 5008 (2016)* across all lands within the bylaw area. In addition, the South Cariboo Area OCP requires a wildfire hazard assessment and mitigation strategy prepared by a qualified professional prior to approval of a rezoning application or subdivision of three or more lots in an area with high or extreme wildfire hazard rating.

However, neither the South Cariboo Area OCP nor Interlakes OCP contain spatially delineated wildfire hazard areas, and do not establish Development Permit Areas for Wildfire Hazard. Additionally, there are no policies pertaining to wildfire hazard and the development of less than three parcels/ lots.

The Green Lake Area OCP contains delineated wildfire probability mapping and regulates development of four or more parcels through the subdivision and development application and approval process by requiring the preparation of wildfire hazard assessment reports, by a qualified professional. Recommendations from the report are required to be implemented during development and written into a restrictive covenant registered on the property. For development of less than four parcels, the property owner must register a standard restrictive covenant

on the property title *encouraging* FireSmart and wildfire mitigation practices for building materials and land management. However, this language acts only as a recommendation and guideline for FireSmart, and not as a requirement. Additionally, the OCP does not establish Development Permit Areas specifically for Wildfire Hazard. It only states that a Development Permit within an identified hazard area *may* be required. Lastly, the Green Lake OCP and associated wildfire probability mapping in Schedule G was completed in 2012, rendering it out of date as wildfire hazard changes with time and various forms of land use.

Additionally, the *South Cariboo Area Rural Land Use Bylaw* covering rural areas of Electoral Area L not contained within an OCP or settlement area does not contain policies regulating development pertaining to wildfire hazard. Wildfire is not included as a hazard area within the bylaw.

The *Cariboo Regional District Development Approval Information Bylaw No. 5008 (2016)* does stipulate that, where an OCP identifies lands in which development approval information is required, the Manager of Planning Services may require a development approval report prepared by a qualified professional. However, it is unclear the circumstances for which this may be required to develop such reports.

In addition to new developments, it is important to assess and address the vulnerability of existing critical infrastructure, facilities, and homes to wildfire. The state of the structure in question and the immediate 30-meter vicinity are crucial in determining the likelihood of ignition and potential damage from wildfire. FireSmart BC has developed Hazard Assessment worksheets for both Critical Infrastructure (CI) and the Home Ignition Zone. The assessments should be undertaken by an individual who has the appropriate knowledge and experience in wildfire vulnerability, such as a Local FireSmart Representative (LFR). Recommendations from the assessments can then be implemented to help reduce the spread, intensity, and associated damages to structures from wildfire. To date, limited critical infrastructure owned and operated by the CRD has had a FireSmart CI Assessment completed or FireSmart activities implemented. CI owned and operated by the CRD includes fire halls, landfills, and water and sewage systems.

Actions: The following are recommended action items regarding incorporating FireSmart and wildfire hazard into new development considerations and existing infrastructure.

Action Number	Action/Recommendation	Priority Level
Action #18	Complete FireSmart Critical Infrastructure Assessments on all CRD owned Critical Infrastructure (CI) within Electoral Area L, such as the Interlakes Fire Halls, transfer stations/landfills and water/sewer systems.	Very High
Action #19	Once a FireSmart Critical Infrastructure Assessment has been completed, implement FireSmart recommendations and mitigation activities resulting from the completed Assessments with the goal of reducing hazard scores as much as feasibly possible.	High
Action #20	Consider amending the <i>South Cariboo Area Rural Land Use Bylaw No. 3501</i> to include land use and development objectives, policies, and/or regulations pertaining to wildfire hazard for various types of development. Examples include: <ul style="list-style-type: none"> FireSmart performance-based exterior “finish/design” and/or landscaping requirements for residential building development 	High

Action Number	Action/Recommendation	Priority Level
	<p>in rural and/or settlement areas, such as exterior materials, sprinkler protection systems, etc.</p> <ul style="list-style-type: none"> • Development setback provisions and regulations pertaining to forested areas in rural and/or settlement areas. 	
Action #21	<p>Revise the Development Permit application and approval process to ensure the following:</p> <ul style="list-style-type: none"> • Bolster language within the <i>Development Approval Information Bylaw 5008</i> pertaining to wildfire hazard assessment reports. • clearly stipulate guidelines or requirements for development approval such as creating FireSmart development guidelines, or creating a terms of reference to ensure standards for wildfire hazard assessment reports required for new development. 	High

5.4 Interagency Cooperation

It takes the collaborative efforts of multiple stakeholders working together to achieve a fire resilient community. These people include the local fire departments, local government staff, elected officials, First Nations representatives, industry representatives and provincial government residents in your area. Individually they are responsible to their own organizations, but all the stakeholder organizations are dependent upon each other to develop an effective Community Wildfire Resiliency Plan and undertake a successful wildfire response.

Goal: To establish and maintain collaborative relationships amongst the Cariboo Regional District staff and key emergency response and management partners, including municipal Fire Departments and emergency preparedness staff, local First Nations, BC Wildfire Service, EMCR, Ministry of Forests, and other stakeholder groups to achieve a more wildfire resilient region.

Context: As of 2024, the CRI FCFS Program required all applicants to participate in a *Community FireSmart and Resiliency Collaborative* (CFRC) in order to receive additional funding through the program.²⁶ This requirement for funding was implemented upon recognition of the importance of collaboration in emergency preparedness and response between various partners, agencies, and stakeholders sharing the landbase. Understanding the roles and responsibilities different groups play helps streamline wildfire preparedness and emergency response efforts.

The Wildfire Resiliency and Training Summit is an annual conference hosted by FireSmart BC that brings together wildfire practitioners from across BC. Attendees range widely from fire department chiefs and local government emergency management staff to provincial government staff, BC Wildfire Service, First Nations representatives, and forestry consultants. Currently under the CRI FCFS Program, funding is available for up to four local government staff (including fire departments) to attend the Wildfire Resiliency and Training Summit annually.

Current Status: The Cariboo Regional District has an active Community Wildfire Resiliency Committee comprised of key internal local government staff including the FireSmart Coordinator, Manager of Planning Services, Manager of Solid Waste, Chief Building Official, Manager of Intergovernmental Relations, Regional Fire Chief, Manager of Emergency Program Services, and Manager of Communications. The group meets quarterly to discuss local emergency preparedness priorities for the Regional District.

Additionally, staff from the CRD Emergency Program Services department sit on the Williams Lake & Area Wildfire Roundtable and the Quesnel and Area Wildfire Roundtable. These roundtable groups consist of a larger group of partners and stakeholders local to the applicable regions, including:

- Municipal governments
- Local First Nations governments
- Ministry of Forests

²⁶ For more information regarding FireSmart Community Funding & Supports Program visit: <https://www.ubcm.ca/cri/firesmart-community-funding-supports>

- Ministry of Water, Land and Resource Stewardship
- Ministry of Emergency Management and Climate Readiness
- BC Wildfire Service
- Local forest licensees (major licensees, BC Timber Sales, woodlot licensees, community forests)
- Fire departments
- Other organizations, individuals or businesses that have infrastructure to protect, or resources or capacity to provide (e.g., agriculture organization, communications companies)

5.4.1 Indigenous Government Engagement Re: Interagency Cooperation

Engagement session that took place with the Tsq̓es̓ceñ and Stswecem'c Xget'tem First Nations highlighted opportunities for the CRD to cooperate with each First Nation to increase and improve *Interagency Cooperation* by strengthening partnership and increasing transparency to better serve all residents. Currently, the opportunities for *Interagency Cooperation* as discussed at each engagement session, includes:

Fire Department Mutual Aid Agreements: During engagement sessions, conversations took place around fire department capacities and interagency cooperation, to better support one another during large and/or multijurisdictional fire events. Implementing mutual aid agreements between interagency fire departments, where applicable, helps to increase opportunities for coordinated response, training, sharing of resources and expanding local knowledge. The CRD should continue to explore mutual aid agreements with interagency fire departments, where applicable, and maintain and support the ones currently in place.

Community Wildfire Roundtable Participation: Discussions around participation in ongoing planning processes identified current Community Wildfire Roundtables as an opportunity to bring together individuals and organizations responsible for different aspects of wildfire preparedness and risk reduction within a region, supporting good coordination and communication. The Williams Lake and Area Roundtable is currently attended by the Stswecem'c Xget'tem First Nation and the CRD, among many other organizations.

Future CWRP Engagement: The Stswecem'c Xget'tem and Tsq̓es̓ceñ First Nations are each currently at various stages of wildfire resiliency planning. Both Stswecem'c Xget'tem and Tsq̓es̓ceñ have expressed being familiar with the CWRP process and are interested in applying for funding to develop CWRPs for their communities in the coming years. Future engagement opportunities during the development of these CWRPs can identify opportunities for coordinated efforts to treat and manage adjacent lands and further cooperation.

Actions: The following actions are recommended for continuity of successful interagency cooperation:

Action Number	Action/Recommendation	Priority Level
Action #22	Integrate CRD participation in the 100 Mile House & Area Community FireSmart and Resiliency Collaborative (CFRC) in conjunction with the District of 100 Mile House and applicable partners to work towards effective emergency planning, vegetation/fuel management, and communication protocols for the South Cariboo Area.	Very High
Action #23	Participate in an integrated fuel management / prescribed fire planning table in collaboration with representatives from the Ministry of Forests Cariboo-Chilcotin District, BC Wildfire Service Cariboo Fire Centre, local First Nations, municipal governments (Williams Lake, Quesnel, 100 Mile House), BC Parks, and local forest licensees (First Nations Woodland License, Community Forest, and Woodlot License tenure holders).	Very High
Action #24	Provide Indigenous cultural safety and humility training to emergency management personnel in order to more effectively partner with, and provide assistance to, Indigenous communities for both wildfire prevention and suppression.	Very High
Action #25	Send staff from the CRD Emergency Program Services, Protective Services, or other relevant local government departments to attend the annual <i>Wildfire Resiliency and Training Summit</i> .	Moderate

5.5 Cross-Training

Wildland-Urban Interface resiliency planning and incident response draw on many different professions who do not typically work in wildfire environment. Cross-training of fire fighters, public works staff, utility workers, local government and First Nations administration, planning and logistics staff, and other key positions will help support the development of comprehensive and effective wildfire risk reduction planning and activities, as well as a safe and effective response.

Goal: Develop a diverse skill set within local government, community members, Fire Departments, etc. to build redundancy and facilitate understanding across individuals/groups engaged in wildfire preparedness and response.

Context: Cross training helps build relationships between different groups/agencies/organizations, identifies areas of strength and weakness in existing emergency operations and processes, and ultimately enhances emergency preparedness. Currently, a number of cross training courses are available to local government staff and fire department personnel through UBCM's CRI funding program. As funding programs are subject to change, it is important to check for available cross-training courses annually.

Examples of available training courses for fire department members include:

- **Wildfire Risk Reduction Basics Course** - free, online course for non-forest professionals that provides an introduction to the key concepts to minimize the negative impacts of wildfires in BC.
- **Fire Life and Safety Educator** - public education course for fire safety education.
- **ICS-100 (Incident Command System)** - introduction to an effective system for command, control, and coordination of response at an emergency site.
- **S-100** - Basic fire suppression and safety and S-100A (annual refresher).
- **S-185** - Fire entrapment avoidance and safety.
- **SPP-WFF1** - Wildland Firefighter Level 1 (includes S100, S-185, and ICS-100).
- **Wildland Structure Protection Program (WSPP-115)** - training for structure protection unit crews and WSPP-FF1(train the trainer).
- **S-231** - Engine Boss (training for structure protection program in a WUI event).
- **SPP-115** - Structure Protection Program (training for structure protection within the WUI).
- **WSPP-WFF1** - Trainer (train the trainer for WFF1).

Cross-training opportunities also exist for local government emergency management personnel and the FireSmart Coordinator position. Eligible training courses available to these personnel include:

- **Local FireSmart Representative (LFR) training** – free online course to enhance understanding of current Wildland Urban Interface concepts and wildfire hazard assessments.
- **Wildfire Mitigation Program** – Wildfire Mitigation Specialist (WMS) training for new applicants to the WMP program.
- **Wildfire Mitigation Specialist 'Train the Trainer'** - This course is available for active WMS to become a certified WMS trainer that can instruct WMS training to staff within their community or neighbouring communities.

- **Introduction to Emergency Management in Canada (EMRG-1100)** - Basic concepts and structure of emergency management.
- **ICS-100 (Incident Command System)** - introduction to an effective system for command, control, and coordination of response at an emergency site.
- **FireSmart BC Landscaping Course** - free online course suitable for public works, lands, and/or parks staff.

Current Status: All CRD Volunteer Fire Departments (VFDs), including Deka Lake, Interlakes and Lone Butte Fire Departments, covering areas of Electoral Area L, complete regular training for two hours each week. The South Cariboo mutual aid agreement includes the Lac La Hache, 108 Mile, Forest Grove, Lone Butte, Deka Lake, Interlakes and 100 Mile Fire Departments (as well as the independent Greeny Lake and Green/Watch lakes VFDs) allowing for a more streamlined mutual response to emergencies and opportunity for joint training events and relationship building between departments. Additionally, certain individuals within CRD VFDs have participated in some wildland suppression cross training events. Personnel receiving wildland fire specific training is decided on at the individual department level, based on their capacity and need.

Actions: The following are recommended action items relating to FireSmart and wildfire response cross training:

Action Number	Action/Recommendation	Priority Level
Action #26	<p>Provide cross-training opportunities to CRD Emergency Program Services and Protective Services staff, and other applicable personnel to further build capacity and redundancy within and between departments. Examples of cross training courses include:</p> <ul style="list-style-type: none"> • Local FireSmart Representative (LFR) training • FireSmart BC Farm and Ranch training (required in order to conduct Farm and Ranch Assessments) • EMRG-100 - Introduction to Emergency Management in Canada • ICS-100 - Incident Command System 	High
Action #27	<p>Provide ongoing cross-training opportunities for local firefighters in the CRD Volunteer Fire Departments, including the Lone Butte, Interlakes, and Deka Lake VFDs. Examples of wildfire suppression training courses include:</p> <ul style="list-style-type: none"> • S-100 – Basic fire suppression and Safety • S-185 – Fire entrapment avoidance and safety • ICS-100 – Incident Command System introduction • SPP-WFF1 Wildland Firefighter Level 1 (includes S-100, S-185, ICS-100) • WSPP-115 - Wildland Structure Protection Program (training for structure protection unit crews) 	Moderate
Action #28	<p>Identify if there are any established volunteer fire fighters within the CRD who have a strong interest in training to become prescribed fire practitioners. Courses and training have become available for skilled fire practitioners to expand their skills and knowledge towards becoming conversant in the use of prescribed fire for ecological restoration and wildfire prevention.</p>	Low

5.6 Emergency Planning

Community preparations for a wildfire emergency requires a multi-pronged approach.

Individuals and agencies need to be ready to react by developing plans, mutual-aid agreements, resource inventories, training, and emergency communication systems. All of these make it possible for a community to respond effectively to the threat of wildfires.

Goal: The goal of emergency planning is to prepare the community to respond safely and effectively, in partnership with local first response agencies and local and regional authorities to wildfire events.

Context: Emergency management programs should focus on the four pillars of emergency management planning:

1. Prevention and mitigation,
2. Emergency preparedness,
3. Response activities, and
4. Recovery.

As observed in recent busy fire seasons, simultaneous wildfire emergencies across the province can strain resources, leading to shortages in heavy equipment, BCWS staff, and contractors. Resource availability may be severely limited or scarce during such times, necessitating the triage or prioritization of emergencies provincewide. Therefore, local governments, partners, and individuals must be prepared and proactive in their response efforts. Comprehensive and apt Emergency Response Plans are a critical first step for communities to prepare for a large emergency event.

Current Status: The current CRD Emergency Plan was developed in 2006. It provides guidance and direction for district staff to follow in the event of an emergency within the CRD. The Hazard Risk and Vulnerability Analysis, which identifies wildland and interface fires as being the highest risk emergency within the CRD, provides clarification regarding the levels of municipal, provincial and federal response to emergencies, information on roles and responsibilities for CRD departments during an emergency, and evacuation protocols.

In 2023, the new *Emergency and Disaster Management Act* (EDMA) came into force, replacing the previous *Emergency Program Act*. To support the new legislation, the provincial government is updating and developing regulations in consultation and cooperation with First Nations. The CRD is currently awaiting finalization of the new EDMA Regulations to update their current Emergency Management Plan and ensure alignment with the most recent legislation. In preparation, they have increased their engagement and collaboration with local First Nations and municipal governments.

5.6.1 Indigenous Government Engagement Re: Emergency Planning

Effective emergency planning and response to wildfire at a regional level will require strong communication between governments and parties involved. Engagement session that took place with the Tsq̓es̓en and Stswecem'c Xget'tem First Nations highlighted opportunities for the CRD to cooperate with each First Nation to increase and improve *Emergency Planning* by identifying and creating efficiencies and coordinating emergency response efforts to better serve all residents. Currently, the opportunities for coordination and joint emergency planning between as discussed at each engagement session, includes:

- **Communication/Collaboration Agreements for Emergency Response:** During engagement sessions, CRD staff expressed interest in developing emergency response agreements with each Nation to ensure consistency of notification and/or collaboration during an emergency event. Each Nation agreed that improving lines of communication through the development of a formal agreement would improve emergency management capacity and provided contact information for the appropriate personnel within each Nation to begin to create these agreements.
- **Cultural Understanding and Sensitivities for Evacuations:** During engagement sessions, the CRD inquired about opportunity better support each Nation during evacuation events by better understanding potential cultural safety considerations for evacuees. Through Emergency Support Services, the CRD is working with each First Nation to identify and understand specific cultural sensitivities and create the appropriate supports to reduce negative impacts and trauma associated with evacuation alerts, orders and return to communities.
- **Culturally Informed Map Outputs:** During engagement sessions, the CRD asked if each nation was interested in adding culturally informed map outputs, in addition to the contemporary outputs on maps created and utilized by the CRD. Each First Nations identified in their engagement session that they would be interested in collaborating with the CRD to develop culturally informed map outputs for the CRD to better understand the traditional names of significant sites, to strengthen relationships, and increase understanding during emergency planning and response efforts.
- **After-Action Review opportunities:** When appropriate and/or requested, the CRD should capitalize on opportunities to include the Tsq̓es̓en and Stswecem'c Xget'tem First Nations emergency program personnel and other relevant members (Chiefs, Land Managers, etc.) in After-Action Reviews (AAR) that take place to gather all relevant inputs and ideas to best understand what worked well and where opportunities for improvement exist.

Actions: The following are recommended action items to improve emergency planning and preparedness relating to wildfire:

Action Number	Action/Recommendation	Priority Level
Action #29	Update the CRD Emergency Plan to reflect updated emergency legislation, area demographics, and emergency planning from neighbouring First Nations and local governments.	Very High
Action #30	Ensure strong emergency communication strategies are developed and maintained between the CRD and local First Nations, including the Stswecem'c Xget'tem and Tsq̓es̓en Nations, with traditional lands within Electoral Area L. This includes maintaining living databases of appropriate contacts within each Nation. Nations should be contacted	Very High

Action Number	Action/Recommendation	Priority Level
	regarding emergency wildfire events occurring on their traditional territory. This will ensure the Nation is informed and involved in emergency planning and response as it relates to their members, lands, and values.	
Action #31	<p>During emergency planning the number of residents throughout Electoral Area L that may be more vulnerable or at higher risk during an emergency evacuation event due to factors such as:</p> <ul style="list-style-type: none"> • Unreliable cell phone coverage or internet bandwidth resulting in delayed or unsuccessful communication, • Residents who are elderly, have limited mobility, or may require additional support during an evacuation. 	Very High
Action #32	Apply for UBCM's <i>Public Notification and Evacuation Route Planning</i> funding stream and assess areas throughout the Cariboo Region that are particularly vulnerable due to isolation, limited evacuation routes, etc. Develop a comprehensive evacuation plan that thoroughly considers evacuation options and includes an inventory of private roads and potential egress routes.	High
Action #33	Promote and encourage all Electoral Area L residents to subscribe to the CRD's emergency public notification system, VoyentAlert! Emergency notifications can be delivered via email or phone. These notifications are critical to ensuring residents are receiving the same important information regarding emergencies impacting their area.	High
Action #35	Organize and/or participate in cross-jurisdictional meetings, tabletop exercises, or mock scenarios specifically focused on wildfire preparedness in the Central Cariboo Region. This should occur in collaboration with emergency management staff from local First Nations and neighbouring municipal governments. For Electoral Area L, this includes Tsq̓escen and Stswecem'c Xget'tem First Nations and the District of 100 Mile House.	High
Action #36	Continue with the Operational Community Liaison Program through the CRD's Emergency Operations Centre.	Moderate
Action #37	Assess community water delivery ability as required for suppression activities, limited to current water system evaluation and available flow analysis. Options for water storage and supply options, such as a dry hydrant system, should be considered.	Moderate

5.7 Vegetation Management

The general goal of vegetation management is to reduce the potential wildfire intensity and ember exposure to people, infrastructure, structures and other values through manipulation of both the natural and cultivated vegetation that is within or adjacent to a community. A well-planned vegetation management strategy that is coordinated with development, planning, legislation and emergency response wildfire risk reduction objectives can greatly increase fire suppression effectiveness and reduce damage and losses to structure and infrastructure.

Goal: Proactively manage vegetation at multiple scales such as the Home Ignition Zone, Community Zone and Landscape Zone to reduce the potential wildfire intensity and ember exposure to people, infrastructure, and other values.

Context: Fuel management, also referred to as vegetation management or fuel treatment, is an important element of wildfire risk reduction within the WUI. The primary objective of fuel management treatments is to reduce the fuels available to burn and alter aspects of wildfire behaviour to allow for safer and more effective suppression strategies.

Over 40% of the one-kilometre WUI area throughout Electoral Area L is occupied by private land parcels, including large rural lots, in which funded fuel management treatments are ineligible. Completing fuel management treatments on provincial crown land without similar wildfire risk reduction activities and treatment on adjacent private land will ultimately reduce the effectiveness of those fuel treatments. This highlights the critical importance of private landowners implementing FireSmart activities on their homes/structures and extending out into the Immediate, Intermediate, and Extended Zones. This is particularly important for large, forested private land parcels often found in rural communities.

5.7.1 FireSmart Landscaping (Residential and Critical Infrastructure)

FireSmart landscaping is the removal, reduction, or conversion of flammable plants (such as landscaping for residential properties, parks, open spaces, and critical infrastructure) in order to create more fire – resistant areas in the Home Ignition Zone around homes, structures, and infrastructure. The *FireSmart BC Landscaping Guide*²⁷ is an excellent tool to help residents and planners make informed choices about how to manage their lawns and gardens to increase resilience to wildfire on their properties. The guide provides a diverse list of fire-resilient plants suitable for different areas of the Province based on cold-hardiness, drought tolerance, and avoidance of harmful invasive species. Additionally, it provides tips for spacing and pruning of vegetation, mulch considerations, and maintenance.

Vegetation management guidelines at the residential scale are further delineated by the FireSmart priority zones. Please refer to Appendix C for guidelines within each priority zone.

²⁷ https://firesmartbc.ca/wp-content/uploads/2021/04/FireSmartBC_LandscapingGuide_Web_v2.pdf

Critical Infrastructure

FireSmart BC has developed a FireSmart Critical Infrastructure (CI) Hazard Assessment Form²⁸ for assessing the vulnerability of critical infrastructure to wildfire. Results of the assessment can help provide mitigation recommendations to enhance wildfire resiliency, including upgrades to structure components or vegetation management in the Ignition Zones surrounding the structure. In many cases, the assessment and subsequent mitigation may extend beyond the legal land parcels on which the critical infrastructure occupies and may require collaboration with adjacent land managers or landowners. Completion of FireSmart Critical Infrastructure Hazard Assessments on CI identified for the CRD was beyond scope of this CWRP project; however, an important next step would be to complete FireSmart Assessments on the highest priority values throughout Electoral Area L.

5.7.2 Complete or Overlapping Fuel Treatment Units

There are a number of wildfire risk reduction activities on crown land across the Cariboo region that are planned or have been completed over the past 20 years. This section highlights the most pertinent wildfire risk reduction work occurring within Electoral area L and identifies any overlap with proposed Fuel Treatment Units (FTUs) from this CWRP.

Ministry of Forests 100 Mile House District

The Ministry of Forests 100 Mile House District has been active in planning and completing fuel management treatments and fuel breaks on crown land around the 100 Mile House area, including around many of the unincorporated communities within Electoral Area L. Fuel treatment areas identified by the MOF that are in progress or have already had a fuel management prescription completed were NOT included as proposed FTUs in this CWRP. However, areas identified by the MOF that were still in the future planning stage were included as FTUs within this CWRP. The following FTUs overlap planned treatment areas from the Ministry of Forests 100 Mile District.

Table 15: Overlapping FTUs from this CWRP with Ministry of Forests 100 Mile House District planned treatment areas

MOF 100 Mile District Unit ID	Status	Overlapping FTU from this CWRP
Huckleberry Butte	Planned	FTU_L36

The MOF 100 Mile House District is also in the process of developing a number of landscape-level Wildland Urban Interface Wildfire Risk Reduction (WUI WRR) Plans for various areas in the 100 Mile House District. **The proposed FTUs in this CWRP should be shared with the MOF 100 Mile House District to assist them in identifying high priority treatment areas and potential overlaps with their landscape planning.**

Area-Based Forest Tenures and Other Planned Wildfire Risk Reduction Activities

The 100 Mile House Community Forest (License K2W) overlaps a large portion of Electoral Area L, surrounding many high-density communities including Lone Butte, Horse Lake, and Fawn Lake. The community forest has been active over the years in completing fuel breaks and interface wildfire risk reduction activities within their tenure area.

²⁸ https://firesmartbc.ca/wp-content/uploads/2021/04/07.23.24_FireSmart_CriticalInfrastructureHazardAssessmentForm.pdf

Completed, active, or planned FTUs from the community forest were not acquired during the development of this CWRP, therefore any overlap with these units is unknown.

Additionally, the District of 100 Mile House is currently in the process of completing an updated Community Wildfire Resiliency Plan that covers all municipal land within the 100 Mile House District, as well as area within the WUI that may extend past the municipal boundary. Proposed Fuel Treatment Units from the 100 Mile House CWRP will aim to work in tandem with proposed FTUs from the CRD CWRPs for applicable fringe Electoral Areas.

Development of fuel treatments to mitigate wildfire risk on public lands within the WUI is an ongoing process undertaken by many organizations, within multiple jurisdictions. It is therefore important to consult with all stakeholders, land managers, government agencies, etc. to closely coordinate and collaborate on proposed FTU's to ensure efficiency and reduce redundancy in areas that may overlap.

5.7.3 Indigenous Government Engagement Re: Vegetation Management

Engagement session that took place with the Tsq̓escen and Stswecem'c Xget'tem First Nations highlighted opportunities for the CRD to cooperate with each First Nation regarding *Vegetation Management* within their respective traditional territories by ensuring Nations remain informed and involved early in the planning process. Any works conducted on any Nations traditional territory must go through the referrals process. **Additionally, the Tsq̓escen and Stswecem'c Xget'tem First Nations both expressed interest in reviewing planned fuel treatment units (FTUs) prior to any work taking place to identify any overlap with cultural sites to provide direction on how to respectfully proceed with and/or alter treatment areas, as need be.**

The Stswecem'c Xget'tem and Tsq̓escen First Nations have completed various levels of fuel reduction on and/or adjacent to their reserve land through fuel treatments and/or cultural burns. To enhance the effectiveness of fuel treatments on the landscape, where applicable the CRD should consider opportunities for collaborative planning of proposed fuel treatments that can tie into existing or planned treatment areas from the Nations.

5.7.4 Proposed Fuel Treatment Units

The proposed FTUs for this CWRP were identified based on wildfire threat identified during field work, available provincial crown land located within the eligible WUI, proximity to values, accessibility, and forest fuel types. The areas identified for potential treatment within Electoral Area L are detailed in Table 16.

The proposed FTUs in Table 16 are listed in order of general priority ranking classification, which are defined as.

- 1 = High Priority
- 2 = Moderate Priority
- 3 = Lower Priority

Priority ranking assignment took into consideration a multitude of factors including both the Wildfire Threat Assessment Scores and Priority Setting Scores from the Wildfire Threat Assessment Worksheet completed in the field, as well as other local factors such as accessibility, anchoring features, overlapping values, and/or constraints to fuel management activities. Prioritization ranking did NOT consider political or public appetite for fuel treatment activity within specific communities/neighbourhoods.

As assigning priority levels and rankings can be a subjective process based on best available information and an imperfect science, the CRD withholds the right to complete proposed fuel treatment activities in whatever order they see fit and are not required to complete FTUs in the order listed in Table 16. The Priority Ranking of FTUs within this CWRP is intended to guide the Regional District in pursuing fuel treatment activities based on overall

wildfire threat of a stand, risk to values, and efficacy of treatment. Furthermore, the FTUs identified as part of this CWRP are only proposed and require further refinement based on more intensive data collected during the fuel management prescription development phase.

Once an area is identified as a proposed fuel treatment unit, completing the vegetation/fuel management on the land base is a two-phase approach; the first phase involves the development of a Fuel Management Prescription (FMP) by a BC Registered Professional Forester (RPF). The FMP details the site-specific attributes and ecology of the identified forest area and prescribes appropriate strategies for fuel reduction that meet objectives for wildfire risk reduction, as well as other important overlapping values such as wildlife habitat, ecological restoration, or recreation. It is the responsibility of the prescribing forester during the FMP development phase to ensure the proposed fuel treatment activities are ecologically suitable for the existing forest stand and site conditions, and promote long-term forest resilience. Additionally, it is during the FMP development phase where further information sharing is completed with Indigenous Governments and stakeholders to ensure all concerns are identified and addressed/incorporated.

The final phase is the implementation of the FMP where treatment operations occur on the ground. Operational contractors must be acquired to complete the treatment specifications as outlined in the FMP.

Additionally, **for proposed treatments overlapping the jurisdiction of other land managers, the Regional District MUST work in collaboration with the Ministry of Forests, First Nations, and other applicable land managers at the fuel prescription development phase to determine suitability of treatment and funding options.** Other land managers include but are not limited to:

- **Woodlot owners** – funding is available through Woodlots BC and the Forest Enhancement Society of BC (FESBC) for fuel treatments within woodlots
- **Community Forests** – funding is available through FESBC for fuel treatments within community forests
- **First Nations Woodland Licenses (FNWL)** – funding is available through FESBC and other avenues for fuel treatments within FNWLs.
- **Provincial Parks and Protected Areas** - it is the jurisdiction of BC Parks to fund and implement fuel treatments within their parks and protected areas.

Table 16 below details the proposed FTUs and includes information on their priority ranking and level, general size, local wildfire threat, overlapping values and land managers, rationale for treatment, and overall status. Detailed maps outlining the location of the FTUs can be found in accompanying **Annex E: Maps**.

Table 16: Proposed Fuel Treatment Units (FTUs) for the CRD's Electoral Area L

FTU ID	Priority Ranking Classification	Total Area (ha)	Treatment Unit Type / Objective	Local Fuel Threat Rating & WTA	Overlapping Values / Treatment Constraints	Treatment Rationale
FTU_L35	1	36.44	Community Resilience, Landscape Fuel Break, Egress Safety	Extreme (WTA HS_L_33)	Managed Licence: K2W 1 Schedule B; Old Growth Priority Deferral Area; Old Growth Management Area Legal: CAR_RCA_7350, CAR_RCA_7360; Critical Habitat: American Badger Jeffersonii Subspecies; Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd; Endangered Occurrences: American Badger; Trapline: TR0502T000; Visual Landscape Inventory: Partial Retention, Retention	This proposed FTU is located along the south side of Horse Lake Road and is adjacent to numerous private properties. The unit entirely overlaps the 100 Mile House Community Forest K2W. The fuel type is best represented by the C-7 type containing Douglas-fir, and minor components of hybrid spruce and lodgepole pine. Understory conifer density is high with an overall fuel strata gap that is <3 m. Surface fuel loading is high. Resulting wildfire threat rating is Extreme. Proposed treatment activities would include thinning, increase Crown Base Height and fuel strata gap, and surface fuel reduction. Treatment will reduce hazardous fuels directly adjacent to the Horse Lake neighbourhood and enhance egress safety along Horse Lake Road.
FTU_L16	1	23.02	Community Resilience, Landscape Fuel Break	Extreme (WTA HS_L_18)	Managed Licence W0556 A Schedule B; Old Growth Priority Deferral Area; Old Growth Management Area Legal: CAR_RCA_7737;	The proposed FTU is located on the north and south side of Highway 24, adjacent to the west side of private properties on Johns Road and Bridge Lake Business Rte in the Bridge Lake community. On the south side of Hwy 24, the unit overlaps Woodlot License W0556. The unit is best represented by C-7 and C-3 fuel types comprised of Douglas-fir, lodgepole pine, and hybrid

FTU ID	Priority Ranking Classification	Total Area (ha)	Treatment Unit Type / Objective	Local Fuel Threat Rating & WTA	Overlapping Values / Treatment Constraints	Treatment Rationale
					Endangered Occurrences: Yellow Banded Bumble Bee; Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd; Trapline: TR0330T002; Visual Landscape Inventory: Retention	spruce. Understory conifer density is high, and surface fuel loading is very high due to dead lodgepole pine from mountain pine beetle. Resulting wildfire threat rating is Extreme. Proposed treatment activities would include understory thinning, removal of dead standing and down, increase Crown Base Height and fuel strata gap, and surface fuel reduction. Treatment will reduce hazardous fuels adjacent to private properties and provide a fuel break to enhance suppression opportunities from a wildfire coming from the west.
FTU_L17	1	13.45	Community Resilience, Landscape Fuel Break	Extreme (WTA HS_L_20)	Critical Habitat: American Badger Jeffersonii Subspecies; Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd; Range Tenure: RAN076427, RAN077980, RAN077990; Endangered Occurrences: American Badger; Trapline: TR0330T002T000;	The proposed FTU is located south of Henley Lake, at the end of High Country Road, surrounding the south side of several private properties. The unit is comprised of a C-7 and M-1/2 fuel types containing primarily Douglas-fir and hybrid spruce. The stand has a dense understory, low fuel strata gap and very high surface fuel loading. Resulting wildfire threat rating is Extreme. Proposed treatment activities would include thinning, removal of dead standing and down, increase Crown Base Height and fuel strata gap, and surface fuel reduction. Treatment will increase defensible space surrounding the private properties, and anchor into an existing plantation.

FTU ID	Priority Ranking Classification	Total Area (ha)	Treatment Unit Type / Objective	Local Fuel Threat Rating & WTA	Overlapping Values / Treatment Constraints	Treatment Rationale
FTU_L4	1	56.37	Community Resilience, Egress Safety, Critical Infrastructure	Moderate (WTA HS_L_5)	Recreation Polygons: Sulphurous Lake; Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd; Old Growth Priority Deferral Area; Trapline: TR0501T008; Visual Landscape Inventory: Partial Retention, Retention	<p>The proposed TU is located adjacent to private residences along the north side of Sulphurous Lake and follows Pettyjohn Road. The unit also encompasses the Sulphurous Lake fire hall and the Sulphurous Lake Rec Site. Work within the rec site will require approval from Rec Sites and Trails BC.</p> <p>The fuel type is characteristic of a C-7 stand containing Douglas-fir, hybrid spruce, and lodgepole pine, with a patchy understory. Surface fuel loading is moderate. Resulting wildfire threat rating is Moderate. Due to proximity to values and critical infrastructure, the TU has been assigned a high priority.</p> <p>Proposed treatment activities would include understory thinning, increase Crown Base Height and fuel strata gap, and surface fuel cleanup. Treatment will increase defensible space and reduce fuels adjacent to private properties, the fire hall, and increase egress safety along Pettyjohn Road.</p>
FTU_L25	1	47.72	Community Resilience, Landscape Fuel Break	High (WTA HS_L_26)	Recreation Polygons: Sheridan Lake L7908; Critical Habitat: American Badger Jeffersonii Subspecies; Endangered Occurrences: American Badger; Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd;	<p>The proposed FTU is located along the south side of private properties on Sheridan Lake and encompasses the Sheridan Lake Rec Site. Work within the rec site will need to be approved by Recs Sites and Trails BC.</p> <p>The unit is comprised of a mix of C-3 and C-7 fuel types containing primarily hybrid spruce with components of Douglas-fir and aspen. Understory conifer density is high and overall fuel strata gap is < 3</p>

FTU ID	Priority Ranking Classification	Total Area (ha)	Treatment Unit Type / Objective	Local Fuel Threat Rating & WTA	Overlapping Values / Treatment Constraints	Treatment Rationale
					Old Growth Priority Deferral Area; Old Growth Management Area Legal: CAR_RCA_7731, CAR_RCA_8981; Range Tenure: RAN074635, RAN076345, RAN076427, RAN077980; Trapline: TR0501T014; Visual Landscape Inventory: Preservation	m. Surface fuels and down wood are high. Resulting wildfire threat rating is High. Proposed treatment activities could include understory thinning, increase Crown Base Height and fuel strata gap, and surface fuel reduction. Treatment would reduce hazardous fuels adjacent to private residences and reduce the potential of fire spread from the rec site.
FTU_L23	1	44.4	Community Resilience, Landscape Fuel Break	High (WTA HS_L_24)	Critical Habitat: American Badger Jeffersonii Subspecies; Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd; Range Tenure: RAN076942, RAN078152; Endangered Occurrences: American Badger; Trapline: TR0501T014;	The proposed FTU is located adjacent to the north side of several rural properties and can be accessed via Horse Lake Road. The unit is comprised of a mix of C-2, C-7 and M-1/2 fuel types. The stand has a large conifer component throughout containing hybrid spruce, Douglas-fir, and a smaller component of aspen. Understory density is high. Surface fuels loading is moderate. Resulting wildfire threat rating is High. Due to a high overstory spruce component, proposed treatment activities would include overstory and understory thinning with retention of deciduous trees and overstory Douglas-fir, increase Crown Base Height and fuel strata gap, and surface fuel reduction. Treatment would increase linear defensible space

FTU ID	Priority Ranking Classification	Total Area (ha)	Treatment Unit Type / Objective	Local Fuel Threat Rating & WTA	Overlapping Values / Treatment Constraints	Treatment Rationale
						along rural properties and create a landscape fuel break.
FTU_L36	1	97.34	Community Resilience, Landscape Fuel Break	High (WTA HS_L_24)	Critical Habitat: American Badger Jeffersonii Subspecies; Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd; Managed Licence: K2W 1 Schedule B, Woodlot W0500 Range Tenure: RAN074250; Endangered Occurrences: American Badger; Trapline: TR0501T002, TR0502T004; Ungulate Winter Range Conditional Harvest: u-5-003; Visual Landscape Inventory: Retention	The proposed FTU surrounds private residences in the Fawn Lake community. A linear treatment unit runs along the north, east, south, and west of private properties, including running along Highway 24. Portions of the unit overlap the 100 Mile House Community Forest K2W, Woodlot License 1425, and Woodlot License W0500. The unit also overlaps a planned fuel treatment area by the Ministry of Forests 100 Mile House District. The area is primarily composed of a conifer-dominant mixedwood stand, dominated by hybrid spruce. Understory density is high. Resulting wildfire threat rating is High. Due to a high overstory spruce component, proposed treatment activities would include clearcut or overstory and understory thinning with retention of deciduous trees and overstory Douglas-fir, increase Crown Base Height and fuel strata gap, and surface fuel reduction. Treatment would increase linear defensible space along private properties and create a landscape fuel break.
FTU_L37	1	33.09	Community Resilience	High (WTA HS_L_1c)	Old Growth Management Area (Legal): CAR_RCA_7080, CAR_RCA_7041;	The proposed FTU is a two part unit surrounding private properties on the east and south sides of Bowers Lake. The east sub-unit is accessible via the

FTU ID	Priority Ranking Classification	Total Area (ha)	Treatment Unit Type / Objective	Local Fuel Threat Rating & WTA	Overlapping Values / Treatment Constraints	Treatment Rationale
						<p>Windy French FSR. The south sub-unit is accessible only by boat.</p> <p>The area is comprised of an uneven-aged C-3 fuel type containing hybrid spruce, lodgepole pine, subalpine fir, and aspen. Patches are prominent within the overstory due to significant mortality from mountain pine beetle resulting in dense understory regeneration of subalpine fir, standing dead and elevated fuels, and high fuel loading. stand containing western redcedar, birch, and hybrid spruce. Resulting wildfire threat rating is High.</p> <p>Proposed treatment activities would include thinning of understory conifers, removal of dead standing and down, and surface fuel reduction. Treatment would reduce hazardous fuels adjacent to residences on a remote lake.</p>
FTU_L5	1	36.95	Community Resilience, Egress Safety	Moderate (WTA HS_L_5)	<p>Managed Licence: W1483 A Schedule B;</p> <p>Ungulate Winter Range Conditional Harvest: u-5-003</p> <p>Old Growth Priority Deferral Area;</p> <p>Old Growth Management Area Legal: CAR_RCA_7176;</p> <p>Range Tenure: RAN075332;</p>	<p>The proposed TU runs along Mahood Lake Road along the northwest side of Sulphurous Lake. The unit is adjacent to several private properties on the lake.</p> <p>Portions of the unit overlap Woodlot License W1483.</p> <p>The fuel type is best associated with the C-7 stand composed of Douglas-fir, hybrid spruce, and lodgepole pine. The understory is patchy. Resulting wildfire threat rating is Moderate.</p> <p>Proposed treatment activities would include understory thinning, increase Crown Base Height and fuel strata gap, and surface fuel cleanup. Treatment</p>

FTU ID	Priority Ranking Classification	Total Area (ha)	Treatment Unit Type / Objective	Local Fuel Threat Rating & WTA	Overlapping Values / Treatment Constraints	Treatment Rationale
					Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd; Trapline: TR0501T008; Visual Landscape Inventory: Retention	would reduce fuels adjacent to private properties and enhance egress safety along Mahood Lake Road.
FTU_L8	1	29.35	Community Resilience, Egress Safety, Landscape Fuel Break	Moderate (WTA HS_L_6)	Managed Licence: W1483A Schedule B; Critical Habitat: American Badger Jeffersonii Subspecies; Endangered Occurrences: American Badger; Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd; Old Growth Priority Deferral Area; Range Tenure: RAN075332; Trapline: TR0501T008; Visual Landscape Inventory: Retention	The proposed TU is located along Higgins Lake Road and is adjacent to private properties along the east side of Higgins Lake. It anchors into a completed fuel treatment along the south side of properties on Higgins Lake. The fuel type is best represented by the C-7 stand dominated by Douglas fir with a component of hybrid spruce. Understory density is high. Surface fuels are low to moderate. Resulting wildfire threat rating is Moderate. The unit has been assigned a high priority as Higgins Lake Road is the only reliable egress route for the Higgins Lake community. Proposed treatment activities would include understory thinning, increase Crown Base Height and fuel strata gap, and surface fuel cleanup. Treatment would enhance existing defensible space around the Higgins Lake community and increase egress safety along Higgins Road.
FTU_L12	1		Community Resilience, Egress Safety, Landscape Fuel Break	Moderate (WTA HS_L_12)	BC Parks: Bridge Lake Provincial Park;	The proposed TU is located along Bridge Lake N Road and adjacent to the west side of several private properties. The unit entirely overlaps Bridge Lake

FTU ID	Priority Ranking Classification	Total Area (ha)	Treatment Unit Type / Objective	Local Fuel Threat Rating & WTA	Overlapping Values / Treatment Constraints	Treatment Rationale
					<p>Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd;</p> <p>Old Growth Priority Deferral Area;</p> <p>Trapline: TR0501T014;</p> <p>Visual Landscape Inventory: Retention</p>	<p>Provincial Park. BC Parks is responsible for funding and completing all fuel management activities within parks and protected areas.</p> <p>The stand is best represented by the C-7 fuel type containing Douglas-fir, hybrid spruce, and lodgepole pine with low crown base height. Understory density is moderate and patchy. Fine fuel loading is moderate. Resulting wildfire threat rating is Moderate.</p> <p>Proposed treatment activities would include understory thinning, increase Crown Base Height and fuel strata gap, and surface fuel cleanup. Treatment would increase defensible space around private properties and enhance egress safety along Bridge Lake Road N.</p>
FTU_L29	1	116.34	Community Resilience, Egress Safety, Landscape Fuel Break, Critical Infrastructure	Moderate (WTA HS_L_28)	<p>Recreation Polygons: Sheridan Lake Southwest;</p> <p>Critical Habitat: American Badger Jeffersonii Subspecies;</p> <p>Endangered Occurrences: American Badger;</p> <p>Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd;</p> <p>Range Tenure: RAN074250;</p> <p>Trapline: TR0501T014;</p>	<p>The proposed FTU follows along the northeast side of Sheridan Lake W Road and the southeast side of Lincoln Drive. The unit is also adjacent to numerous private properties on Sheridan Lake, the Interlakes #1 West Fire Hall, and overlaps portions of the Sheridan Lake Southwest recreation site.</p> <p>The unit is comprised of a mixedwood fuel type with a high conifer component, primarily hybrid spruce. The stand has a dense understory and a low fuel strata gap of < 3 m. Surface fuel loading is moderate to high. Resulting wildfire threat rating is Moderate. Priority rating is high due to proximity to high density of values, including the fire hall.</p>

FTU ID	Priority Ranking Classification	Total Area (ha)	Treatment Unit Type / Objective	Local Fuel Threat Rating & WTA	Overlapping Values / Treatment Constraints	Treatment Rationale
					Visual Landscape Inventory: Retention	Proposed treatment activities would include understory thinning, retention of deciduous trees, increase Crown Base Height and fuel strata gap, and surface fuel reduction. Treatment would reduce fuels and increase defensible space around the private properties and the fire hall, and enhance egress safety along Lincoln Drive and Sheridan Lake W Road.
FTU_L28	1	21.55	Community Resilience, Landscape Fuel Break	Moderate (WTA HS_L_28)	Critical Habitat: American Badger Jeffersonii Subspecies; Endangered Occurrences: American Badger; Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd; Old Growth Priority Deferral Area; Range Tenure: RAN074250; Trapline: TR0501T014;	The proposed TU is located at the end of Boulanger Road, on the west end of Sheridan Lake. The unit runs adjacent to several lakefront private properties and ties into previous harvest blocks and wetland features. The unit is comprised of a mixedwood fuel type containing a high conifer component, primarily hybrid spruce. The stand has a dense understory and a low fuel strata gap of <3 m. Surface fuel loading is moderate to high. Resulting wildfire threat rating is Moderate. Proposed treatment activities would include understory thinning, retention of deciduous trees, increase Crown Base Height and fuel strata gap, and surface fuel reduction. There is also potential for clear cut. The objective is to increase defensible space around the private properties and enhance suppression efforts along Boulanger Road.
FTU_L31	1	55.65	Community Resilience, Landscape Fuel Break	Moderate (WTA HS_L_30)	Managed Licence: K2W 1 Schedule B;	The proposed TU is located adjacent to the northeast side of private properties along Fawn Lake Road. The

FTU ID	Priority Ranking Classification	Total Area (ha)	Treatment Unit Type / Objective	Local Fuel Threat Rating & WTA	Overlapping Values / Treatment Constraints	Treatment Rationale
					<p>Ungulate Winter Range Conditional Harvest: u-5-003</p> <p>Critical Habitat: American Badger Jeffersonii Subspecies;</p> <p>Endangered Occurrences: American Badger;</p> <p>Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd;</p> <p>Old Growth Priority Deferral Area;</p> <p>Old Growth Management Area Legal: CAR_RCA_7503;</p> <p>Trapline: TR0502T004;</p> <p>Visual Landscape Inventory: Partial Retention</p>	<p>unit entirely overlaps the 100 Mile House Community Forest K2W.</p> <p>The unit is a mix of C-3 and M-1/2 fuel types, comprised of predominantly hybrid spruce with a component of aspen. Overstory and understory density is moderate. Resulting wildfire threat rating is Moderate.</p> <p>Proposed treatment activities would include understory thinning, retention of deciduous trees, increase Crown Base Height and fuel strata gap, and surface fuel reduction. There is also potential for clear cut. The objective is to increase defensible space around the private properties and create a landscape fuel break.</p>
FTU_L30	1	53.9	Egress Safety, Landscape Fuel Break	Moderate (WTA HS_L_31)	<p>Managed Licence: K2W 1 Schedule B;</p> <p>Ungulate Winter Range Conditional Harvest: u-5-003</p> <p>Recreation Polygons: Horse Lake East</p>	<p>The proposed FTU is located along Horse Lake Road and is adjacent to several private properties along the south side of Horse Lake. The unit entirely overlaps the 100 Mile House Community Forest K2W. The unit also encompasses the Horse Lake East rec site.</p> <p>The unit is best represented by a moderately stocked C-7 fuel type containing primarily Douglas-fir with a smaller component of hybrid spruce. The stand has a dense understory and a low fuel strata gap of < 3 m.</p>

FTU ID	Priority Ranking Classification	Total Area (ha)	Treatment Unit Type / Objective	Local Fuel Threat Rating & WTA	Overlapping Values / Treatment Constraints	Treatment Rationale
					<p>Critical Habitat: American Badger Jeffersonii Subspecies;</p> <p>Endangered Occurrences: American Badger;</p> <p>Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd;</p> <p>Old Growth Management Area Legal: CAR_RCA_7443;</p> <p>Trapline: TR0502T004;</p> <p>Visual Landscape Inventory: Partial Retention</p>	<p>Surface fuel loading is low to moderate. Resulting wildfire threat rating is Moderate.</p> <p>Proposed treatment activities include understory thinning, increase Crown Base Height and fuel strata gap, and surface fuel reduction. A partial harvest may be considered. Treatment would increase defensible space surrounding the private properties, reduce potential for fire spread from the rec site, and enhance egress safety along Horse Lake Road.</p>
FTU_L1	2	80.29	Community Resilience, Critical Infrastructure	Extreme (WTA LC_L_2)	<p>Watch Lake Landfill</p> <p>Ungulate Winter Range</p> <p>Conditional Harvest: u-5-003</p> <p>Critical Habitat: American Badger Jeffersonii Subspecies;</p> <p>Endangered Occurrences: American Badger;</p> <p>Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd;</p> <p>Old Growth Priority Deferral Area;</p> <p>Range Tenure: RAN076345;</p>	<p>Proposed TU overlaps the Watch Lake Landfill site and ties into Little Green Lake Rd, Watch Lake Road, and private residences.</p> <p>The unit is characteristic of a C-4 stand with approximately 4,200 sph in the understory and 1,000 sph in the overstory, with a high level of Douglas-fir ingress. High stem density has reduced the fuel strata gap and created vertical and horizontal fuel continuity. Suppressed and dead stems are increasing surface fuel loading. Resulting wildfire threat rating is Moderate.</p> <p>Proposed treatment activities include overstory and understory thinning, increase Crown Base Height and fuel strata gap, and surface fuel reduction. Treatment will reduce hazardous fuels adjacent to the landfill</p>

FTU ID	Priority Ranking Classification	Total Area (ha)	Treatment Unit Type / Objective	Local Fuel Threat Rating & WTA	Overlapping Values / Treatment Constraints	Treatment Rationale
					Trapline: TR0501T002;	that may contain hazardous materials and enhance suppression potential.
FTU_L2	2	23.6	Community Resilience, Landscape Fuel Break	Extreme (WTA LC_L_4)	Ungulate Winter Range Conditional Harvest: u-5-003 Old Growth Management Area Legal: CAR_RCA_7786; Critical Habitat: American Badger Jeffersonii Subspecies; Endangered Occurrences: American Badger; Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd; Range Tenure: RAN076345; Trapline: TR0501T002;	Proposed TU is located adjacent to the north and west sides of rural private properties on Watch Lake Road. The area is characteristic of a C-7 fuel type, where dead and down lodgepole pine has created patchy canopy gaps but significantly increased surface fuel loading. Woody surface fuel loading is very high with jackpot down trees, resulting in an Extreme Wildfire Threat Rating. Due to the low concentration of values, the TU has been assigned a moderate priority. Proposed treatment activities include understory thinning, increase Crown Base Height and fuel strata gap, and surface fuel reduction with a mechanical treatment recommended due to the volume of dead and down pine. Treatments will improve stand health, reduce spotting potential to adjacent stands, and enhance suppression opportunities near Watch Lake Road.
FTU_L18	2	60.21	Community Resilience, Landscape Fuel Break	High (WTA HS_L_21)	Managed Licence: W1426 A Schedule B; Critical Habitat: American Badger Jeffersonii Subspecies; Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd;	The proposed FTU is located along the west side of private properties near Hansen Lake and includes a portion of High Country Road. The unit overlaps Woodlot License W1426. The unit is primarily comprised of a mixedwood fuel type with a large conifer component, primarily hybrid spruce and Douglas-fir. Understory conifer density is

FTU ID	Priority Ranking Classification	Total Area (ha)	Treatment Unit Type / Objective	Local Fuel Threat Rating & WTA	Overlapping Values / Treatment Constraints	Treatment Rationale
					<p>Range Tenure: RAN076427, RAN077980, RAN077990;</p> <p>Endangered Occurrences: American Badger;</p> <p>Trapline: TR0330T002, TR0501T014;</p>	<p>high, resulting in a low fuel strata gap. Surface fuel loading is high. Resulting wildfire threat rating is High</p> <p>Due to the spruce component, proposed treatment should consider a partial cut that targets removal of spruce stems while retaining Douglas-fir, increase Crown Base Height and fuel strata gap, and surface fuel reduction. Treatment will provide a landscape fuel break adjacent to private properties to enhance suppression efforts from a wildfire coming from the west.</p>
FTU_L19	2	19.19	Community Resilience, Egress Safety	High (WTA HS_L_19)	<p>Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd;</p> <p>Old Growth Priority Deferral Area;</p> <p>Trapline: TR0330T002, TR0501T014;</p>	<p>The proposed FTU runs along Henley Lake Road and the south side of Highway 24, connecting to private land boundaries to the west.</p> <p>The unit is comprised of a mix of C-2, C-3, and M-1/2 fuel types, dominated by hybrid spruce with smaller components of aspen. The stand has a low fuel strata gap due to branches of spruce extending to the ground and sections with very high surface fuel loading. Resulting wildfire threat rating is High.</p> <p>Proposed treatment activities include thinning, increase Crown Base Height and fuel strata gap, and surface fuel reduction. Treatment will enhance egress safety along Henley Lake Road and a portion of Highway 24 for residences near the east side of Hansen Lake. There are overlapping West Fraser cutblocks planned in the area.</p>

FTU ID	Priority Ranking Classification	Total Area (ha)	Treatment Unit Type / Objective	Local Fuel Threat Rating & WTA	Overlapping Values / Treatment Constraints	Treatment Rationale
FTU_L26	2	10.76	Community Resilience	High (HS_L_27)	Critical Habitat: American Badger Jeffersonii Subspecies; Endangered Occurrences: American Badger; Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd; Range Tenure: RAN076345; Trapline: TR0501T014; Visual Landscape Inventory: Preservation	The proposed FTU surrounds a small neighbourhood of residences located on the southwest side of Sheridan Lake. The properties and the unit are accessed via a forestry cutblock road. The unit is best represented by a C-3 fuel type dominated by Douglas-fir. The stand has a dense spruce understory and low fuel strata gap. Surface fuel loading is high. Resulting wildfire threat rating is High. Proposed treatment activities could consider a partial cut targeting the overstory spruce, understory thinning, increase Crown Base Height and fuel strata gap, and surface fuel reduction. Machines will likely be necessary to adequately address the high levels of down woody debris. Treatment will reduce hazardous fuels adjacent to remote properties and increase defensible space around the private properties.
FTU_L27	2	27.11	Community Resilience, Landscape Fuel Break	High (WTA HS_L_27)	Recreation Polygons: Sheridan Lake L7887; Critical Habitat: American Badger Jeffersonii Subspecies; Endangered Occurrences: American Badger; Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd; Old Growth Priority Deferral Area;	The proposed FTU is located along the south side of private properties located on the southwest side of Sheridan Lake. The unit overlaps the Sheridan Lake Rec Site and is accessed via a forestry cutblock road. The unit is best represented by an immature C-3 fuel type. The stand has a dense under and overstory, dominated by conifers, and has a fuel strata gap of < 3 m. Resulting wildfire threat rating is High. Proposed treatment activities include thinning, increase Crown Base Height and fuel strata gap, and surface fuel reduction. Treatment will reduce

FTU ID	Priority Ranking Classification	Total Area (ha)	Treatment Unit Type / Objective	Local Fuel Threat Rating & WTA	Overlapping Values / Treatment Constraints	Treatment Rationale
					Range Tenure: RAN076345; Trapline: TR0501T014; Visual Landscape Inventory: Preservation	hazardous fuels within the rec site and adjacent to remote properties, and increase defensible space around the private properties.
FTU_L32	2	39.88	Egress Safety	High (WTA HS_L_36b)	Managed Licence: K2W 1 Schedule B, W0813 A Schedule B; Critical Habitat: American Badger Jeffersonii Subspecies; Endangered Occurrences: American Badger; Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd; Trapline: TR0501T002, TR0502T004;	<p>The proposed FTU is located along Highway 24, in the Huckleberry Butte community. The unit overlaps a number of managed forest license areas including Woodlot License W0813 and the 100 Mile House Community Forest K2W. Treatment will require approval and collaboration with the managed license holders.</p> <p>The unit is best represented by a C-7 fuel type comprised of predominantly Douglas-fir, with a small lodgepole pine component. The stand has a dense understory with continuous ladder fuels. Surface fuel loading is high. This has resulted in a High Wildfire Threat Rating.</p> <p>Proposed treatment activities include overstory and understory thinning, increase Crown Base Height and fuel strata gap, and surface fuel reduction. Treatment would enhance egress safety along a portion of Highway 24 in the Huckleberry Butte community and enhance suppression opportunities from Highway 24.</p>
FTU_L33	2	13.09	Community Resilience, Landscape Fuel Break	High	Managed Licence: K2W 1 Schedule B;	The proposed FTU wraps around the north and west sides of rural private properties located on Inman Road. The unit entirely overlaps the 100 Mile House

FTU ID	Priority Ranking Classification	Total Area (ha)	Treatment Unit Type / Objective	Local Fuel Threat Rating & WTA	Overlapping Values / Treatment Constraints	Treatment Rationale
				(WTA HS_L_36N)	Old Growth Management Area Legal: CAR_RCA_7477 Critical Habitat: American Badger Jeffersonii Subspecies; Endangered Occurrences: American Badger; Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd; Trapline: TR0502T001;	Community Forest K2W. Treatment will require approval and collaboration with the managed license holders. The unit is best represented by a C-7 fuel type comprised of predominantly Douglas-fir. The stand has a dense understory with relatively continuous ladder fuels. Surface fuel loading is high. This has resulted in a High Wildfire Threat Rating. Proposed treatment activities include understory thinning, increase Crown Base Height and fuel strata gap, and surface fuel reduction. Treatment would create a landscape fuel break around rural properties and enhance defensible space from a wildfire coming from the northwest.
FTU_L6	2	20.69	Community Resilience, Egress Safety	Moderate (WTA HS_L_3)	BC Park: Rainbow/Q'iwentem Park; Managed Licence: W1483 B Schedule B; Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd; Old Growth Priority Deferral Area; Range Tenure: RAN075332; Trapline: TR0501T008;	The proposed TU is located between Sulphurous Lake and Deka Lake, to the east of private properties. The treatment overlaps Rainbow/Q'iwentem Park and a small portion of Woodlot License W1483. BC Parks is responsible for funding and implementing fuel treatments within parks and protected areas. The fuel type is best associated with the C-7 fuel type with patchy distribution, comprised of Douglas-fir, hybrid spruce, and subalpine fir. Surface fuel loading is low to moderate. Evidence of forest health concerns with overstory tree decline. Resulting wildfire threat rating is Moderate.

FTU ID	Priority Ranking Classification	Total Area (ha)	Treatment Unit Type / Objective	Local Fuel Threat Rating & WTA	Overlapping Values / Treatment Constraints	Treatment Rationale
					Visual Landscape Inventory: Modification, Retention	Proposed treatment activities include removal of dead standing trees, understory thinning, increase Crown Base Height and fuel strata gap, and surface fuel reduction. Treatment will increase defensible space around private properties and increase egress safety from the adjacent park.
FTU_L15	2	3.89	Recreation	Moderate (WTA HS_L_15)	BC Park: Bridge Lake Park; Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd; Trapline: TR0330T002;	<p>The proposed FTU overlaps the Bridge Lake Provincial Park campground, and is adjacent to the north side of private properties on Bridge Lake Park Road. BC Parks is responsible for funding and implementing fuel treatments within parks and protected areas.</p> <p>The unit is primarily a young, thrifty Douglas-fir stand, best represented by the C-7 fuel type. Surface fuels are overall low, however the fuel strata gap is < 3 m. Resulting wildfire threat rating is Moderate.</p> <p>Proposed treatment activities include understory thinning, increase Crown Base Height and fuel strata gap, and surface fuel reduction. Treatment would reduce potential for fire spread from the campground to the adjacent private properties.</p>
FTU_L9	3	32.24	Egress Safety	High (WTA HS_L_7)	Ungulate Winter Range Conditional Harvest: u-5-003 Critical Habitat: American Badger Jeffersonii Subspecies; Endangered Occurrences: American Badger;	The proposed TU is located along Mahood Lake Road, a main egress route for the Deka Lake community and anchors into a completed fuel treatment to the northeast and a planned fuel treatment area by the Ministry of Forests 100 Mile House District to the south.

FTU ID	Priority Ranking Classification	Total Area (ha)	Treatment Unit Type / Objective	Local Fuel Threat Rating & WTA	Overlapping Values / Treatment Constraints	Treatment Rationale
					<p>Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd;</p> <p>Old Growth Priority Deferral Area;</p> <p>Range Tenure: RAN075332;</p> <p>Trapline: TR0501T008;</p>	<p>The stand is best associated with the C-2 fuel type comprised primarily of high density hybrid spruce with ladder fuels extending to near the ground. Woody fuel loading is high. This has resulted in a High Wildfire Threat Rating.</p> <p>Due to high prevalence of spruce, proposed treatment activities include a clearcut or understory thinning, increase Crown Base Height and fuel strata gap, and surface fuel reduction. Treatment would enhance egress safety along Mahood Lake Road and provide continuity of defensible space when combined with completed and other planned fuel break treatments.</p>
FTU_L24	3	22.01	Community Resilience	High (WTA HS_L_25)	<p>Recreation Polygons: Sheridan Lake L7921;</p> <p>Old Growth Management Area Legal: CAR_RCA_7731, CAR_RCA_8981;</p> <p>Critical Habitat: American Badger Jeffersonii Subspecies;</p> <p>Endangered Occurrences: American Badger;</p> <p>Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd;</p> <p>Old Growth Priority Deferral Area;</p>	<p>This proposed FTU is located along the south and west sides of private properties located on southeast end of Sheridan Lake. The unit entirely overlaps the Sheridan Lake Verna Island Recreation Site. Activities within rec sites must be approved by Recreation Sites and Trails BC.</p> <p>The unit is comprised of a mix of C-7 and mixedwood fuel types containing hybrid spruce, Douglas-fir, and a small aspen component. Understory conifer density is high and overall fuel strata gap is < 3 m. Surface fuel loading is moderate. This has resulted in a High Wildfire Threat Rating.</p> <p>Proposed treatment activities include understory thinning, increase Crown Base Height and fuel strata gap, and surface fuel reduction. Treatment is proposed</p>

FTU ID	Priority Ranking Classification	Total Area (ha)	Treatment Unit Type / Objective	Local Fuel Threat Rating & WTA	Overlapping Values / Treatment Constraints	Treatment Rationale
					Range Tenure: RAN074635, RAN076427, RAN077980; Trapline: TR0501T014; Visual Landscape Inventory: Preservation	to increase defensible space surrounding the private properties and rec site.
FTU_L21	3	23.55	Egress Safety	High (WTA HS_L_22)	Critical Habitat: American Badger Jeffersonii Subspecies; Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd; Old Growth Priority Deferral Area; Range Tenure: RAN075324; Endangered Occurrences: American Badger; Trapline: TR0501T014;	The proposed FTU is located at the junction of Thomas Point Road and Highway 24. The unit is bound by private property on the east, south, and west sides. The stand is best represented by a mix of C-7 and mixedwood fuel types, comprised primarily of Douglas-fir with components of aspen and hybrid spruce. The stand has a dense under and overstory with a fuel strata gap of < 3 m. Surface fuel loading is high. This has resulted in a High Wildfire Threat Rating. Proposed treatment activities include potential for partial harvest, understory thinning, increase Crown Base Height and fuel strata gap, and surface fuel reduction using machinery. The objective for treatment is to increase egress safety along Thomas Point Road.
FTU_L3	3	20.82	Community Resilience	Moderate (WTA LC_G_14)	Critical Habitat: American Badger Jeffersonii Subspecies; Endangered Occurrences: American Badger;	The proposed FTU contains four separate components. The units create linear breaks adjacent to private properties on Moose Point Drive and Green Lake North Road.

FTU ID	Priority Ranking Classification	Total Area (ha)	Treatment Unit Type / Objective	Local Fuel Threat Rating & WTA	Overlapping Values / Treatment Constraints	Treatment Rationale
					Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd; Range Tenure: RAN075276, RAN76240; Trapline: TR0501T002;	The stands are represented by a mixedwood fuel type with a high deciduous component, resulting in a Moderate wildfire threat rating. Despite adjacency to a large number of residences and values, the lower wildfire threat rating from deciduous components in the stand warrant the treatment unit an overall lower priority. Proposed treatment activities include understory thinning, increase Crown Base Height and fuel strata gap, and surface fuel reduction. Treatment will create linear fuel breaks and create defensible space adjacent to a large number of private properties and along Green Lake North Road.
FTU_L14	3	7.82	Community Resilience, Egress Safety	Moderate (WTA HS_L_11)	Guide Outfitters: Sheridan Ranch Outfitters 2019 Ltd; Old Growth Priority Deferral Area; Range Tenure: RAN073894; Trapline: TR0501T014;	The proposed TU is located along Grossett Road and adjacent to the north side of private properties on Otter Lake. The unit anchors into an area that currently has a fuel management prescription completed with plans to be treated by the Ministry of Forests 100 Mile House District. The stand is best represented by a C-7 fuel type comprised of hybrid spruce and Douglas-fir, with a healthy overstory and a relatively sparse understory. Surface fuel loading is moderate. This has resulted in a Moderate Wildfire Threat Rating. Due to the presence of spruce, proposed treatment activities include thinning (targeting spruce), increase Crown Base Height and fuel strata gap, and surface

FTU ID	Priority Ranking Classification	Total Area (ha)	Treatment Unit Type / Objective	Local Fuel Threat Rating & WTA	Overlapping Values / Treatment Constraints	Treatment Rationale
						<p>fuel reduction. Treatment would enhance egress safety along Grossett Road and enhance effectiveness of the landscape fuel break when combined with the previously prescribed treatment area.</p>
FTU_L13	3	9.83	Landscape Fuel Break	Moderate (WTA HS_L_14)	<p>Range Tenure: RAN074948; Trapline: TR0339T003;</p>	<p>The proposed TU is located adjacent to large rural private properties on Twin Lakes Road. The unit is accessed via a forestry road.</p> <p>The stand is best represented by the C-7 fuel type comprised of hybrid spruce, Douglas-fir, and subalpine fir. The unit has been assessed as having a Moderate Wildfire Threat Rating and overlaps a planned West Fraser harvest block.</p> <p>Treatment would provide a landscape fuel break and increase defensible space adjacent to rural private properties from a wildfire advancing from the east.</p>

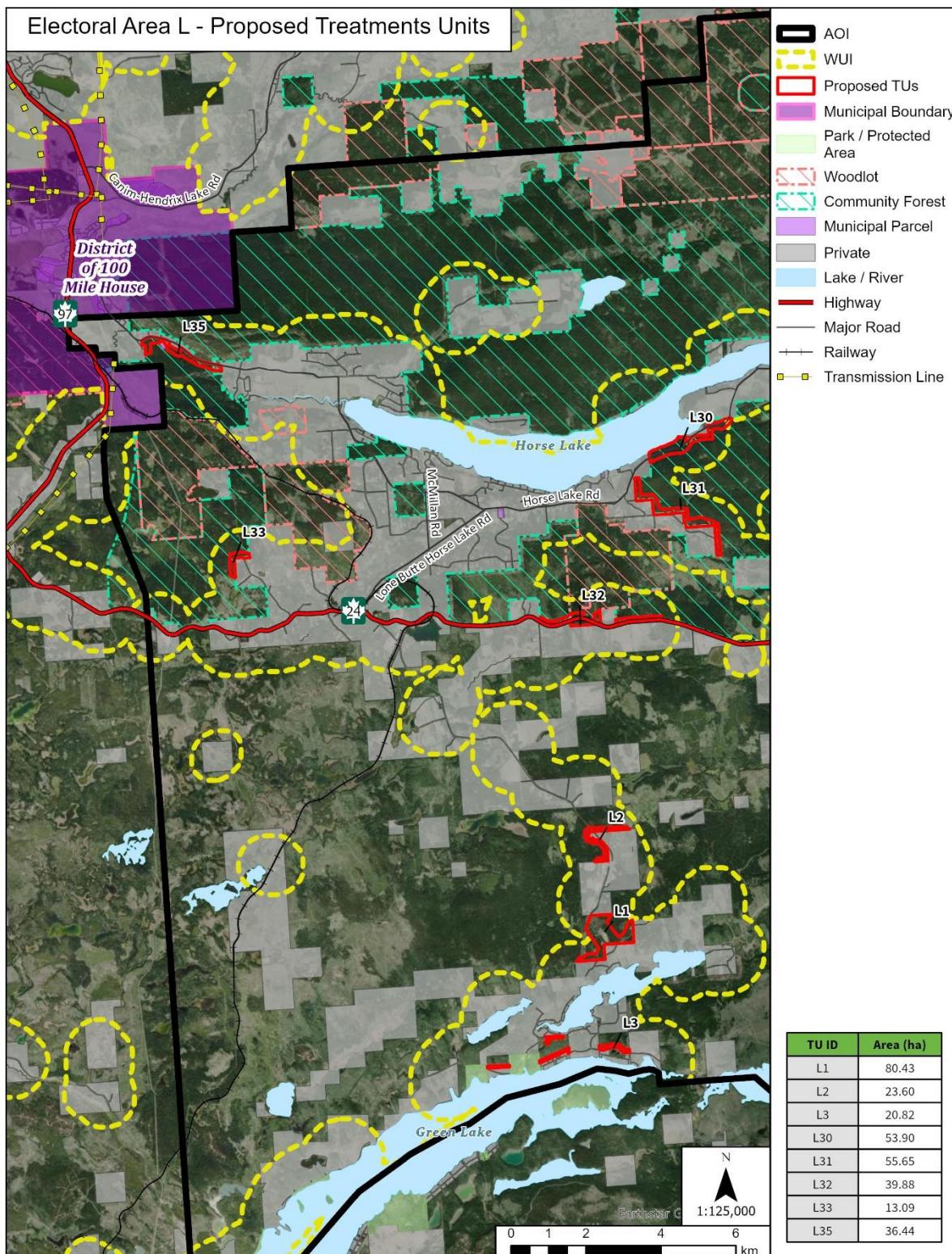
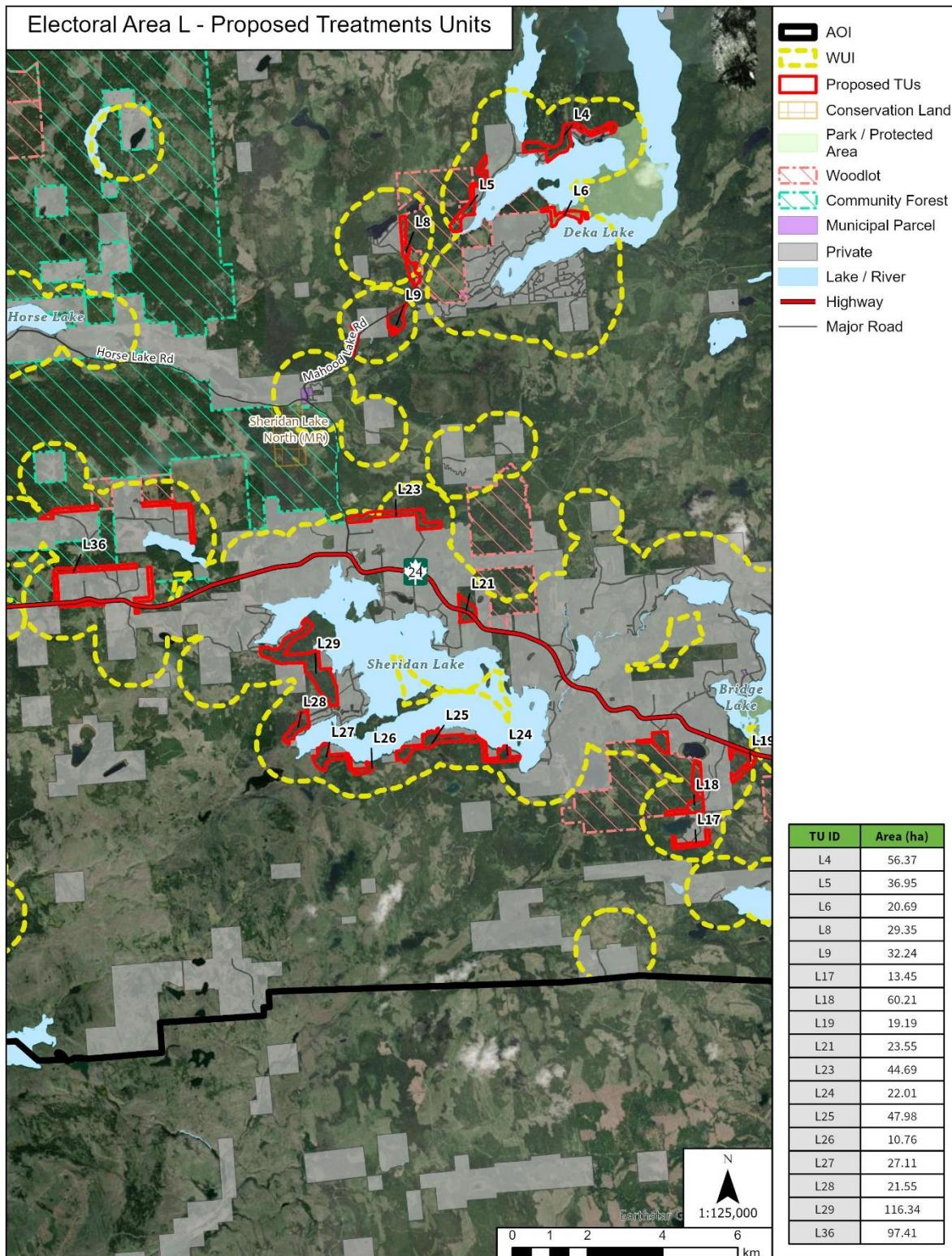
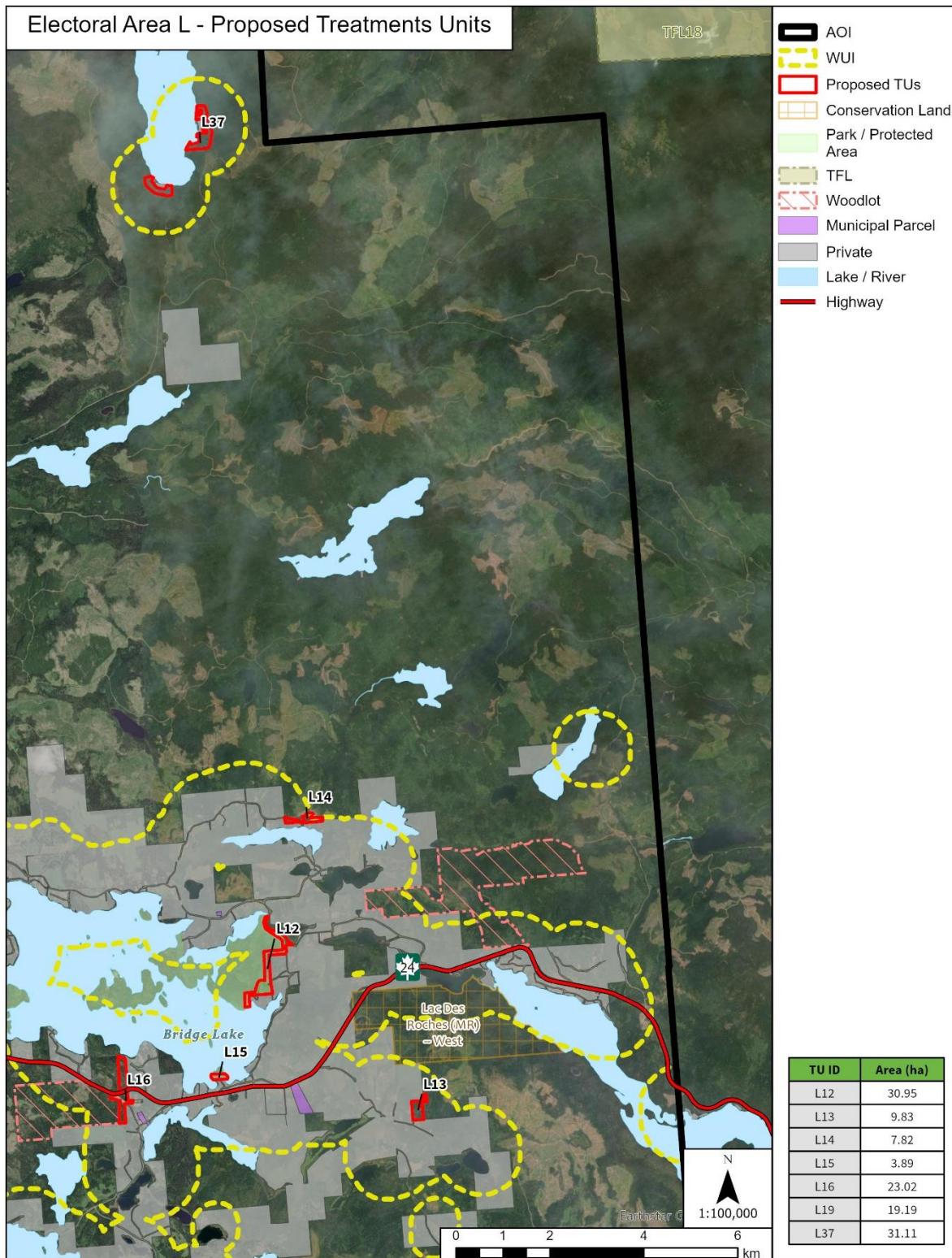


Figure 18: Location of proposed Fuel Treatment Units throughout Electoral Area L (3 figures)





Actions: The following are recommended action items regarding FireSmart Vegetation Management and fuel treatments:

Action Number	Action/Recommendation	Priority Level
Action #38	Encourage residents to remove/reduce flammable vegetation in the Immediate, Intermediate, and Extended zones on their properties. Promote the use of the <i>FireSmart BC Landscaping Guide</i> to inform vegetation management best practices and replace flammable vegetation with more fire-resistant landscaping. Update the CRD Emergency Plan to reflect updated emergency legislation, area demographics, and emergency planning from neighbouring First Nations and local governments.	Very High
Action #39	Apply for funding to develop fuel management prescriptions for forested areas identified on provincial crown land within the eligible WUIs. It is recommended to start with Priority 1 proposed fuel treatment areas as identified within this CWRP.	High
Action #40	Apply for funding to undertake fuel management treatment operations on provincial crown land within the eligible WUIs based on completed fuel management prescription units.	High
Action #41	Create a public database of skilled practitioners, crews, and/or contractors that can provide vegetation management or construction services for private landowners wanting to complete vegetation management, landscaping, or other FireSmart activities on their homes/properties. Share this database on the CRD website.	Moderate

6.0 Implementation

6.1 FireSmart Roadmap

No two FireSmart journeys are the same, however FireSmart has created a roadmap to help local governments understand where to start and general steps to take on the way to community wildfire resiliency²⁹. The roadmap is broken into four different phases, and should be completed sequentially, but will depend on previous FireSmart activities and the recommended action items in this CWRP.

FireSmart Roadmap Phases

Engagement Phase

In this phase, the primary objective is awareness. The focus is on building an understanding of the risk of wildfire and the benefits of developing and growing a local FireSmart program.

Activities that could be completed in this phase are suggested below, but not limited to:

- **FireSmart Positions:** Hiring and training; local FireSmart program development.
- **Education:** Create a Public Education/Communications Plan. Develop/update signage, social media, community websites and/or newsletters; organize and host public information meetings and workshops; promote and distribute FireSmart educational materials and resources; host a Wildfire Community Preparedness Day.
- **Interagency Cooperation:** Participate in a Community Wildfire Resiliency Collaborative or Community Wildfire Roundtable; attend the annual Wildfire Resiliency and Training Summit.
- **Residential Areas:** Offer and undertake FireSmart Home ignition Zone assessments; offer off-site debris removal programs.

Initiative Phase

In this phase, the primary objective is acting and implementing local FireSmart activities. The focus is on building capacity both in local government personnel and residents, and the community's overall capacity to prepare and respond to wildfire events.

Activities that could be completed in this phase are suggested below, but not limited to:

- **Education:** Support neighbourhoods to apply for FireSmart Canada Neighbourhood Recognition Program.
- **Community Planning:** Complete FireSmart assessments for critical infrastructure, community assets, culturally significant sites and/or green spaces.

²⁹ FireSmart. (2023). The FireSmart Roadmap. Referenced from: <https://firesmartbc.ca/resource/the-firesmart-roadmap/>

- **Emergency Planning:** Assess community water delivery ability; FireSmart structure Protection Trailer development and plan.
- **Training:** Undertake training for other FireSmart positions (beyond initial FireSmart coordinator), fire departments, and emergency management staff; develop local Home Partners program.
- **FireSmart Projects:** Complete mitigation activities for critical infrastructure, community assets culturally significant sites and/or green spaces with completed assets.
- **Residential areas:** Offer local rebate programs.

Expansion Phase

In this phase, the primary objective is FireSmart activities within the Eligible WUI. The focus is on broader community planning.

Activities that could be completed in this phase are suggested below, but not limited to:

- **Education:** Support the organization of a Farm and Ranch Wildfire Preparedness workshop.
- **Community Planning:** Develop FireSmart policies and practices for the design and maintenance of publicly owned land and infrastructure.
- **Fuels Management:** Develop prescriptions and/or burn plans and undertake fuel reduction treatments, including cultural and prescribed fire.

Integration Phase

In this phase, the primary objective is long-term and permanent changes to support community wildfire resiliency. The focus is on development considerations and collaboration with other partners.

Activities that could be completed in this phase are suggested below, but not limited to:

- **Education:** Support the FireSmart BC Library program at local/regional libraries.
- **Development Considerations:** Amend Official Community Plans, Comprehensive Community Plans and/or land use, engineering, and public works bylaws to incorporate FireSmart principles; revise landscaping requirements in zoning and development permit documents; establish Development Permit Areas for Wildfire Hazard; amend referral processes for new developments to ensure multiple departments, including the fire department and/or emergency management personnel, are included.
- **Interagency Cooperation:** Support the FireSmart BC Plant Program at local garden centres or nurseries; partnerships with local landscapers, developers, real-estate agents, insurance, etc.

6.2 Plan Monitoring, Tracking and Reporting

The CWRP action plan (Table 1: Cariboo Regional District Electoral Area L CWRP Risk Assessment and Action Plan Summary) should be reviewed annually to capture any significant changes that could affect implementation or priority levels, as well as to track which actions have been completed or are in progress. Completed actions should be summarized, including information on specific measurable outcomes that demonstrate reduced wildfire risk in Electoral Area L of the CRD. In addition, a five-year comprehensive review/update should take place in 2030 including specific updates on:

- How wildfire risk has changed based on recent wildfires;
- Which vegetation management activities have been completed; and
- Any significant changes to the built environment due to growth and development, economic changes, or other factors.

Table 17 provides an example monitoring plan, tracking, and update summary for the CRD Electoral Area L CWRP. Annual updates should consider renaming the plan version as 1.1, 1.2, 1.3, etc. Five-year comprehensive updates should consider renaming the plan version as 2.0, 3.0, etc. Columns for actions in progress or completed actions may refer to the action numbers listed in **Table 17**. Annual tracking is useful for creating accountability, as well as reporting accomplishments and successes. Summaries of specific measurable outcomes are useful for reporting to decision makers and applying for future funding.

Table 17. CRD Electoral Area L CWRP monitoring, tracking and update summary

Plan Version	Update Year	Update Type	Actions in Progress	Completed Actions	Notes
1.0	2025	CWRP	Eg. Action #1, 6, 9, etc.		
2.0	2030	CWRP Update			
3.0	2035				

7.0 Appendices

Appendix A: Glossary of Terms

Area of Interest: The AOI for a CWRP includes the area that lies within the municipal boundary, regional district boundary, or First Nations land, including First Nation reserve land, land owned by a Treaty First Nation (as defined by the Interpretation Act) within treaty settlement lands, or land under the authority of an Indigenous National Government boundary. The AOI should reflect how the community is organized and how it approaches other similar planning projects within its jurisdictional boundaries. When communities are located close together and are geographically aligned, a “regional” approach may be most effective.

Critical Infrastructure (CI): are assets owned by the Provincial government, local government, public institution (such as health authority or school district), First Nation or Treaty First Nation that are essential to the health, safety, security or economic wellbeing of the community and the effective functioning of government, or assets identified in a Local Authority Emergency Plan Hazard, Risk & Vulnerability, and Critical Infrastructure assessment.

FireSmart Landscaping: is the removal, reduction, or conversion of flammable plants (such as landscaping for residential properties, parks, open spaces, and critical infrastructure) in order to create more fire-resistant areas in FireSmart Non-combustible Zone and Priority Zones 1 and 2 (refer to the FireSmart Guide to Landscaping).

Fuel Management Treatment: Fuel management treatment is the manipulation or reduction of living or dead forest and grassland fuels to reduce the rate of spread and fire intensity, and enhance the likelihood of successful suppression, generally outside of FireSmart Non-combustible Zone and Priority Zones.

Values at Risk (VAR): are the human or natural resources that may be impacted by wildfire. This includes human life, property, critical infrastructure, high environmental and cultural values, and resource values.

Wildfire Risk:

- Likelihood of a fire occurring
- Associated fire behaviour
- Impacts of the fire (consequence)

Wildfire Threat: The ability of a wildfire to ignite, spread, and consume organic material (trees, shrubs, and other organic materials) in the forest. The major components used to define wildfire threat are fuel, weather, and topography.

Wildland Urban Interface (WUI): The WUI is defined in the FireSmart manual as any area where combustible forest fuel is found adjacent to homes, farm structures, or other outbuildings. This may occur at the interface, where development and forest fuel (vegetation) meet at a well-defined boundary, or in the intermix, where development and forest fuel intermingle with no clearly defined boundary.

Appendix B: Engagement Summary

Engagement activities with partners, indigenous governments, and the public were completed throughout the lifecycle of this project and the development of six Community Wildfire Resiliency Plans for CRD Electoral Areas D, E, F, G, H, and L. Engagement activities included in-person meetings, open houses, surveys, and presentations. Please see accompanying Annex B, which includes a Partner and Public Engagement Summary, and an Indigenous Government Engagement Summary.

Appendix C: Home Ignition Zone

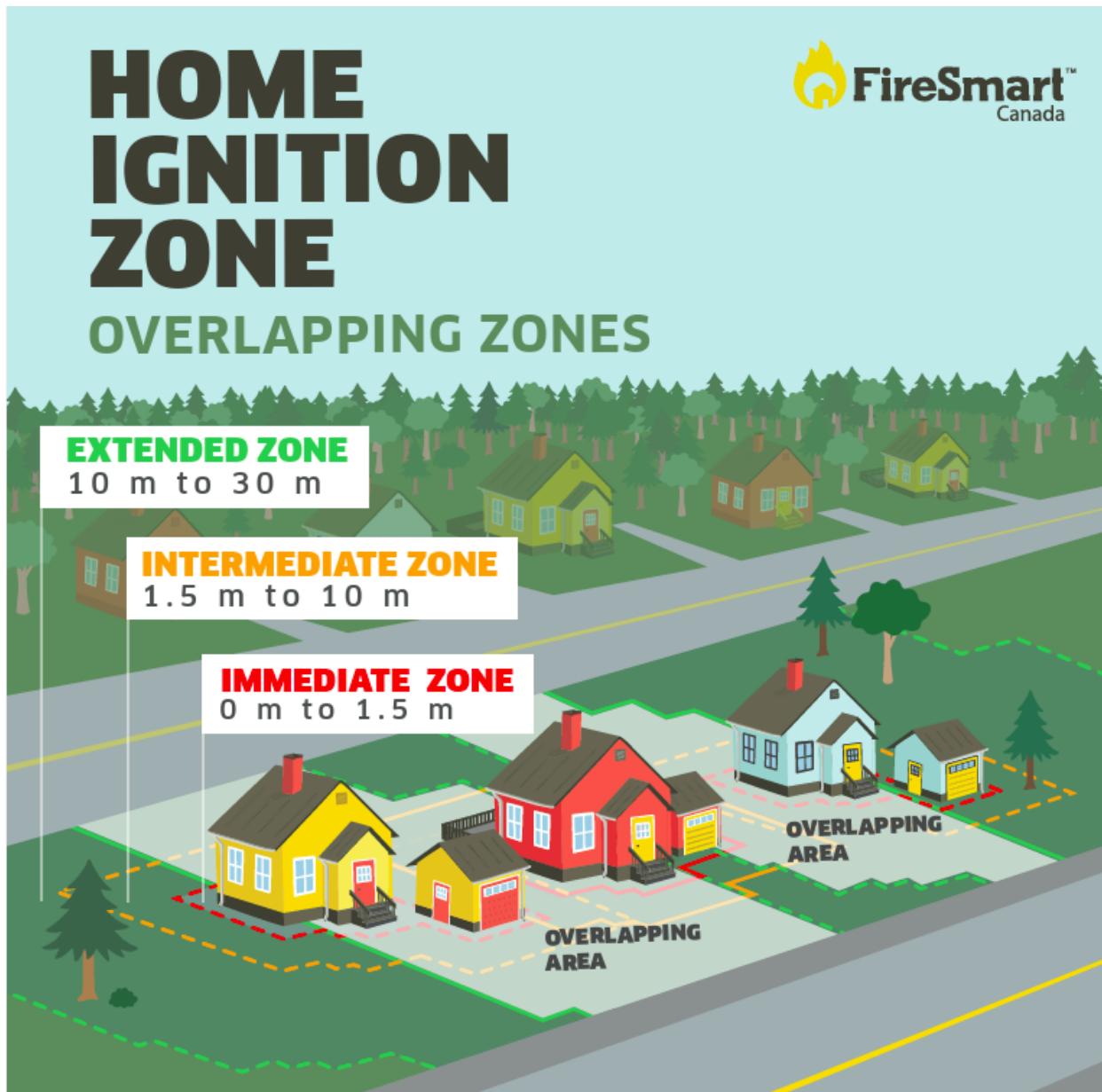
FireSmart describes three Priority Zones around a building, collectively named the Home Ignition Zone (Figure 19) alongside descriptions of what these zones should look like, starting from the edge of a building and moving outwards.

- Immediate Zone (0 – 1.5 m) Non-combustible surface should extend around the entire home and any attachments, such as decks.
- Intermediate Zone (1.5 – 10 m) This should be a fire-resistant area, free of all materials that could easily ignite from a wildland fire.
- Extended Zone (10 – 30 m) Thinned and pruned coniferous trees, alongside routine dead surface fuel cleanup.



Figure 19. FireSmart Home Ignition Zone, which is comprised of three priority zones, as illustrated in the BC FireSmart Begins at Home Manual (<https://firesmartbc.ca/wp-content/uploads/2019/08/Home-Ignition-Zone-Poster-BC.pdf>)

Of particular importance are neighbourhoods where homes and buildings are situated close together in a relatively higher density than more rural areas. This means that FireSmart Priority Zones frequently overlap with one another (i.e., Immediate Zone or Intermediate Zone from one building may encroach into an adjacent building's Zone Immediate or Intermediate). This highlights the importance of community resilience towards wildfire though working together to reduce wildfire hazard, especially within the WUI.



Source: <https://firesmartcanada.ca/wp-content/uploads/2024/02/Home-Ignition-Zone-Overlapping-Zones-WEB.pdf>

Appendix D: Wildfire Threat Assessments

See accompanying Annex D: CRD CWRP Wildfire Threat Assessment EA L spreadsheet and associated photos.

Appendix E: Maps

See accompanying Annex E: CRD CWRP AOI/VAR, Fire Risk, and Fuel Treatment Unit Maps for Electoral Area L.

Appendix G: Key Provincial and Federal Acts and Regulations, and Additional Resources for FireSmart Disciplines

Education

- [FireSmart BC website](#)
- [BC Wildfire Prevention website](#)
- [First Nations' Emergency Services Society](#)
- [Programs FireSmart Canada](#)
- [Wildfire Preparedness Guide](#)
- [First Nations Forestry Council](#)
- [BC Wildfire Service](#)
- [BC Government - Wildfire](#)
- [Emergency Management in BC](#)
- [Destination BC - Emergency Preparedness](#)
- [Educational Messages Desk Reference](#) (the National Fire Protection Association)
- [BC Hydro - be prepared for emergencies](#)

Provincial Acts and Regulations

- [Emergency Management and Disaster Act](#) (2024)
- [BC Local Government Act](#) (2015)
- [BC Open Burning and Smoke Control Regulations](#) (2023)
- [BC Wildfire Act and Regulations](#) (2005)
- [Forest and Range Practices Act](#) (2021)

Federal Acts

- [Forestry Act](#) (1985)
- [Migratory Birds Convention Act](#) (1994)
- [Canadian Environmental Protection Act](#) (1999)
- [Species At Risk Act](#) (2002)

- [Fisheries Act \(2019\)](#)

Development Considerations

- Information on Development Permit Areas is available [at FireSmart BC - Development Considerations](#)
- Additional guidance on land use planning tools and strategies for the Wildland-Urban Interface include the American Planning Association's PAS Report 594 [Planning the Wildland-Urban Interface \(2019\)](#), which is available at no charge through the association's website.
- The National Research Council (NRC) Wildland-Urban Interface Technical Committee has also published [National Guide for Wildland-Urban Interface \(WUI\) Fires \(2021\)](#); this guide provides guidance to Canadian local governments and First Nations on WUI land use planning and regulation implementation.

Interagency Cooperation

- [FireSmart BC](#)
- [Indigenous Services Canada](#)
 - Emergency Management Assistance Program (EMAP), which supports communities in accessing emergency assistance services. Will provide funding for communities to build resiliency and prepare and respond to natural hazards.
- [First Nation Health Authority](#)
 - Emergency Management Branch – ensures FN communities are effectively incorporated into emergency preparedness, prevention, response and recovery initiatives.
- [First Nation Emergency Services Society](#)
 - Emergency Management department provides community-based emergency management guidance, support, and assistance to BC First Nation communities.
 - Fire Services Department assists communities to increase level of fire protection.
 - Forest Fuel Management Department liaises with governments and other agencies to assist with wildfire prevention activities.
- [Emergency Management BC](#)
 - BC Wildfire Service and Emergency Management BC (EMBC), along with several other Ministries and agencies, are working in close collaboration to provide First Nation training, equipment, and capacity support

Cross-Training

- [UNBC - Wildland Firefighting Training Certificate](#)
- [OH&S \(06\) - Fire Safety Planning & Systems](#)
- [FireSmart training courses](#)
- [Recognized British Columbia S-100 instructors](#)

Emergency Planning

The following resources are available for reference and to assist with emergency planning:

- [National guide for wildland-urban-interface fires](#) - which provides guidance to Canadian local governments and First Nations on WUI land use planning and regulation implementation, as well as guidance on wildfire response preparedness planning.
- [FireSmart BC Emergency Planning](#)
- [Emergency management in B.C.](#) – which contains several valuable resources including fire services, education and toolkits, and preparedness and recovery information.

Vegetation Management

- The BCWS Fire and Fuel Management web page offers a number of tools that support fuel management planning and implementation and can be accessed [here](#).

Contact your local [BC Wildfire Service Fire Centre](#) office to learn more about, engage and collaborate on Landscape Zone vegetation management planning.

- [FireSmart Guide to Landscaping](#)
- Funding resources for fuel management treatments can vary from year to year as funding pots change over time. Current available funding opportunities can be initiated through conversation with [First Nation Emergency Services Society](#) (FNES) prior to completion of treatments.