



Pemberton Fire Rescue Annual Report 2021





Message from

Fire Chief Robert Grossman

I am pleased to submit the Annual Report for the Pemberton Fire Rescue Fire Department for 2021.

The report offers an insight into the efforts and achievements that the Fire Department has accomplished over the past year and allows its readers to gain an insight into the services we offer to our citizens.

This report will outline call volumes, fire prevention efforts, public fire education initiatives, professional development achievements, and other significant accomplishments made by our personnel and the department over the past year.

I am proud to be associated with the men and women who comprise our fire department. They are a dedicated, efficient, and highly skilled group of individuals who selflessly strive to offer a service that our community can be proud of.

I would like to thank Council for their continued support of our efforts and achievements. It is recognized that Council determines the level of service that we provide, and further that Council recognizes the important role that our firefighters play in making our community safe.

We look forward to your continued support.

Robert Grossman
Fire Chief

MISSION STATEMENT

The preservation of life and property within the Pemberton area.
To promote fire safety and deliver educational programs.
To cooperate with other organizations within the community in the event of an emergency.

Primary Goal of the Pemberton Fire Rescue Department

The goal of the fire department is to provide fire protection, and road rescue services through a range of programs designed to protect the lives and property of the inhabitants from the effects of fires, sudden medical emergencies or exposure to dangerous conditions created by man or nature; first to their municipality; second, to those municipalities which are provided fire protection by the fire department via authorized agreements, currently being the Lil'wat Nation and Electoral Area C of the Squamish-Lillooet Regional District, which are provided fire protection by the fire department via authorized agreements; and third, to those municipalities requiring assistance through authorized emergency fire service plan and program (mutual aid) activities, currently being the Resort Municipality of Whistler.

Risk Management

The fire department employs a risk management plan as a component of a comprehensive safety and health program with the following objectives:

1. To limit the exposure of the fire department to situations and occurrences that could have harmful or undesirable consequences to the department or its members.
2. To provide a safe working environment for the members of the fire department while recognizing the risks inherent to the fire department's mission.
3. To require all personnel to use the concept of risk vs. benefit as a primary consideration during fire department operations.

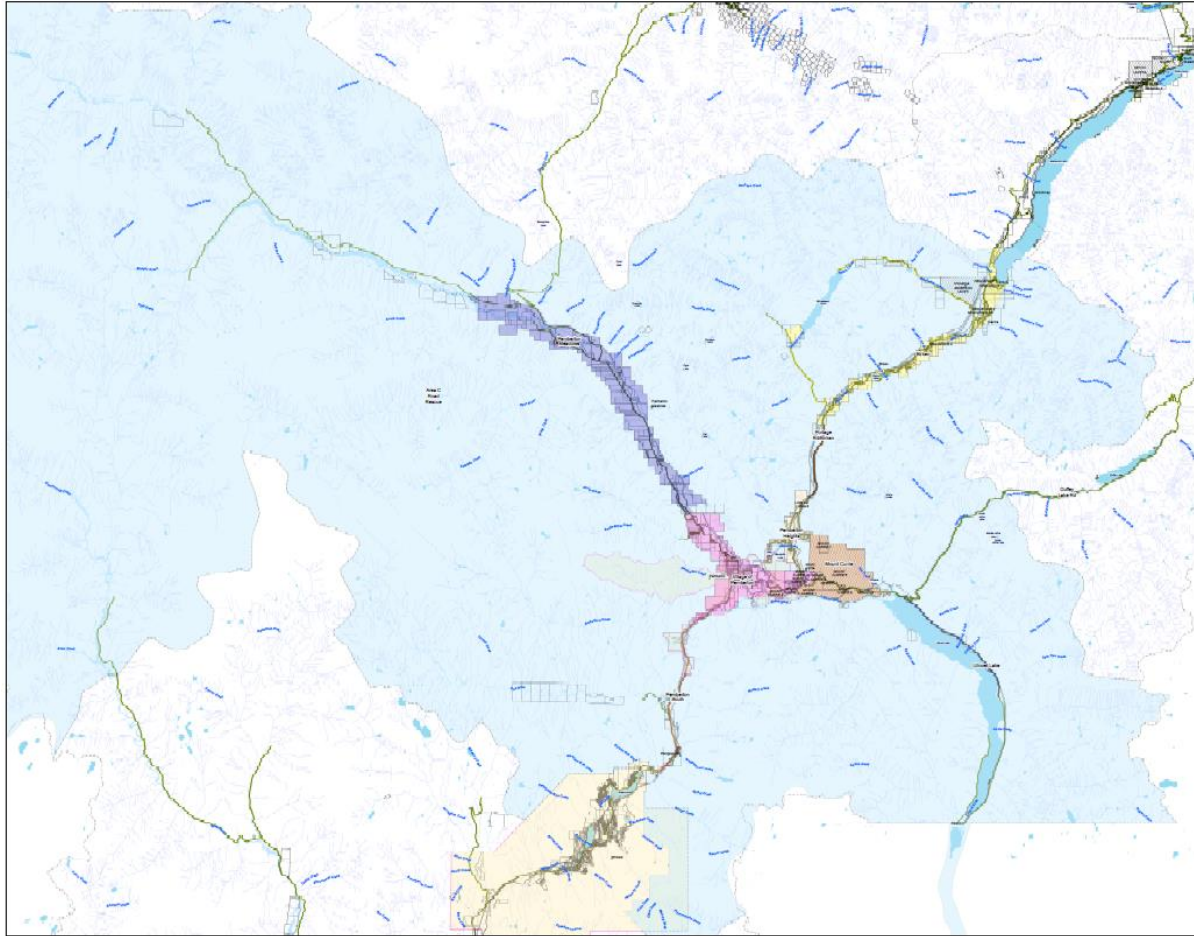
Area Covered by Pemberton Fire Rescue

The Village of Pemberton Fire Rescue is a volunteer department that provides service to the residents of the Village of Pemberton (Village of Pemberton Bylaw No. 807, 2016 – see pink on map). In addition, the existing Fire Service Agreement with the Squamish-Lillooet Regional District (SLRD) establishes that fire protection services are provided to Pemberton Meadows (SLRD Bylaw No.1082, 2008 – see purple on map), Pemberton Heights (SLRD Bylaw No. 1083, 2008 – see yellow on map) and the Pemberton Fire Protection Specified Area as defined within the Agreement.

The Fire Department provides Road Rescue Service, which encompasses all Squamish-Lillooet Regional District Electoral Area C and includes responding to motor vehicle accidents which can involve extricating patients from the vehicle as well as assisting patients to the Ambulance, as required.

As well, through a Service Agreement with Lil'wat Nation (see orange on map) the Pemberton Fire Rescue also provides services to the residents of the Lil'wat Nation community.

The map below outlines the Pemberton Fire Rescue Road Rescue Service area and the areas covered through the various Fire Service Agreements.



Primary Objectives of the Fire Department

To achieve the goals set by Pemberton Fire Rescue, necessary funding must be in place and the following objectives met:

1. Identify and review the fire services requirements of the municipality on a regular basis.
2. Provide consistent administrative processes that meet the needs of the department.
3. Ensure firefighting equipment is maintained and available within the municipality to provide adequate response to a citizen's call within a reasonable length of time.
4. Provide departmental training to ensure all personnel are familiar with the latest fire prevention and firefighting techniques, are confident in the control of emergency situations and able to effectively co-operate with other municipal departments with respect to management training and other programs.
5. Establish and maintain a maintenance program to ensure all apparatus is ready to respond to emergency calls.

6. Provide an effective fire prevention program.
7. Develop and maintain an effective public information system and educational program, with particular emphasis on school fire safety programs; and commercial, industrial, and institutional staff training.
8. In the event of a major catastrophe within the municipality, ensure assistance is available and/or in place to/from outside departments and other agencies to assist and support Pemberton Fire Rescue.
9. Develop and maintain a good working relationship with all federal, provincial, and municipal departments, utilities, and agencies, related to the protection of life and property.
10. Interact with other municipal departments respecting the aspects of fire on any given program.
11. Ensure these objectives are not in conflict with any other municipal department.

FireSmart

Wildfire events are a real risk that impact all British Columbians and for which our community must be prepared. But while that seems like a big task, the FireSmart program has been developed to help residents get started and make proven steps toward protecting homes and the community from wildfires. In July 2021, Village of Pemberton was awarded a Community Resiliency Investment FireSmart Economic Recovery Grant, in the amount of \$147,149.10, for a one-year term. Two positions were created, FireSmart Program Coordinator and FireSmart Laborer. The FireSmart team coordinates home assessments, establishes FireSmart educational outreach program, coordinates FireSmart projects, oversees reporting and information sharing. The work that the FireSmart team is doing is vital to ensuring Village of Pemberton is proactive in its activities to put in place the mechanisms to help prevent a significant and dangerous wildfire event.

Wildfire Deployment

Pemberton Fire Rescue has consistently supported the province during difficult and exhausting wildfire events. In 2021, the Department was again called upon to assist with the significant number of wildfires burning in the interior.

In July, Pemberton Fire Rescue sent a crew of four (4) along with Engine 10 to Boston Bar. Over the following six weeks, three (3) additional crews were deployed on 2-week intervals to the areas of the Lytton Complex fire, Spences Bridge, Cook's Landing, Shackan Indian Band as well as areas along Highway 8 from Spences Bridge to Lower Nicola. On August 26th, the last crew and Engine 10 returned home.

In total for 2021, Pemberton Fire Rescue members were out for 45 days assisting with wildfires. Each crew had an opportunity to learn more about wildfire behaviour, worked to save properties and built relationships with members from other departments. As a result, new skills and knowledge has been brought back to Pemberton and shared with all members which will enable the Department to provide better protection to the community.

Fire Prevention and Inspections

Pemberton Fire Rescue is pleased to report that business operators within in the Village of Pemberton recognize the importance of being prepared and continues to be compliant with fire regulations.

Fire Inspection	13
Fire Safety Plans	2

Community Events Involvement

In 2021, the COVID-19 Pandemic Public Health Orders limited Pemberton Fire Rescue involvement with Community Events. However, Pemberton Fire Rescue was pleased to assist with the Halloween fireworks, Fire Prevention Day, and Remembrance Day ceremony. While the pandemic did reduce our ability to be actively involved with the community this year with restrictions expected to relax in 2022 the hope is that the Department will be able to facilitate more public education events.

Training

In response to COVID-19 Pandemic protocols, members trained on a weekly basis under a modified program. Five (5) to Seven (7) training sessions were held per week with 4 – 5 members attending each session. This revised training program required an increased commitment by the Chief and Deputy Chief to maintain the training requirements set forth by the province while at the same time abiding to the social distancing protocols set forth by through the Public Health Orders.

As restrictions were relaxed in June, training sessions were held once a week with the members being divided into 4 groups.

2021 Breakdown of Training

Hours of Training	565.5
Sessions Available	135
Subjects Covered	64

Total Hours each member contributed to Pemberton Fire Rescue for 2021

Members commit a significant amount of time to maintain the training requirements established by the province as well as attending incidents and public education events. In 2021, Pemberton Fire Rescue members contributed the following hours to Incidents, Training, Public Education and Standby Time:

	Hours
Incidents	424.37
Training	565.50
Public Education	30
Standby Time	9,075.50

These volunteer hours committed to are in addition to maintaining fulltime jobs as well as family and other commitments. The dedication and commitment each member of Pemberton Fire Rescue gives to the Department as well as the community is very much appreciated.

Awards and Recognitions

Each year, Pemberton Fire Rescue acknowledges and congratulates members for their outstanding service to the community. In 2021 the following awards were presented:

Award	Recipient
Firefighter of the Year	Adam Malpus
Rookie of the Year	Rachel Bailey
Most Improved Firefighter of the Year	Alex Wilkes
Outstanding Firefighter of the Year for most attendance to incidents and training.	Jordan Brown

Retirements

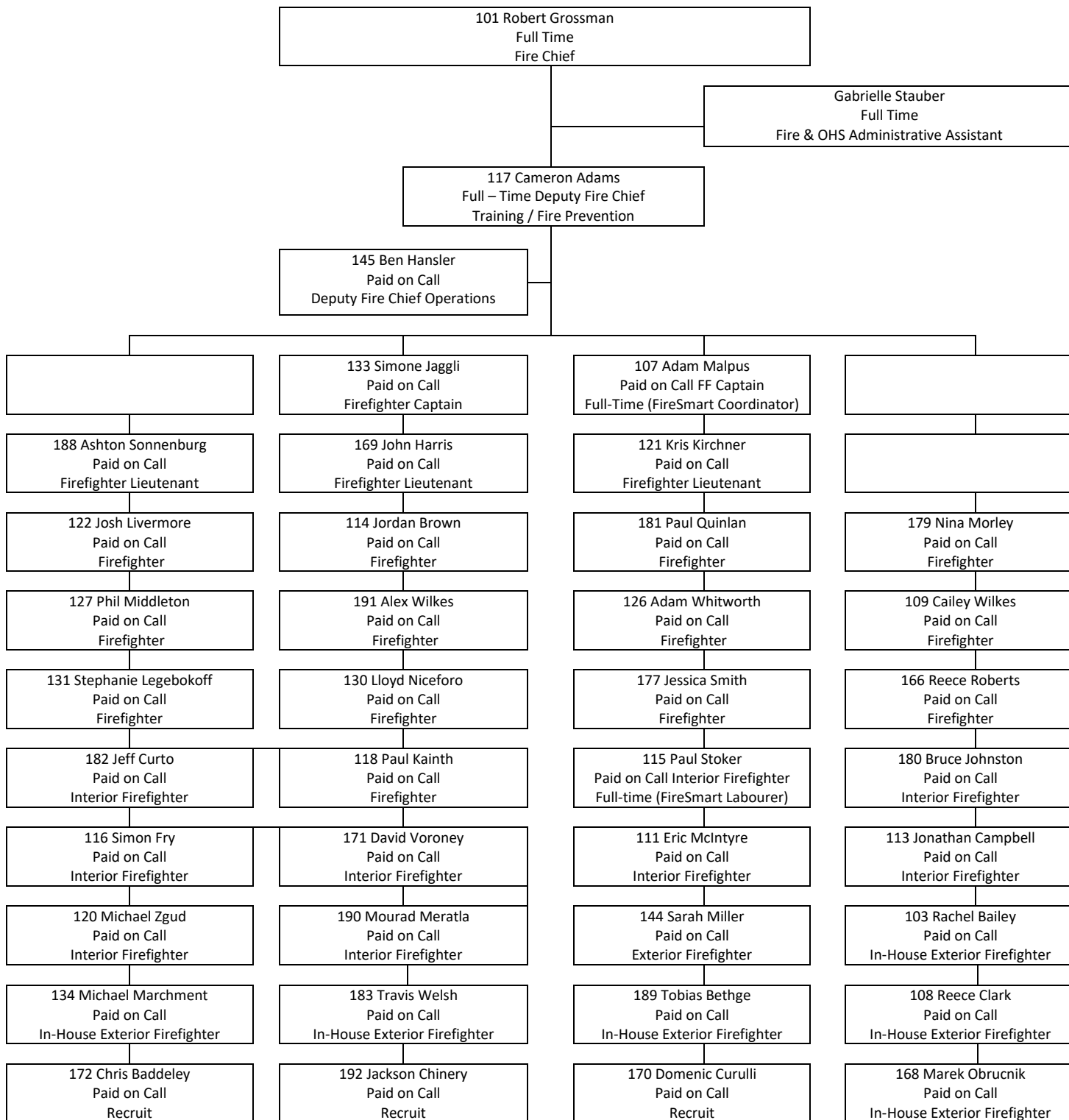
The following retirements took place in 2021:

William Johnson - 4 years of Fire Service
Austin Small
James Jones

New Recruits

Each September, Pemberton Fire Rescue issues an annual call for recruits. As of November 2021, five (5) new recruits were accepted into the Department.

Organizational Structure Pemberton Fire Rescue Department 2021



2021 PEMBERTON FIRE RESCUE MEMBERS – YEARS OF SERVICE

Rank	Name	Years of Service	
Fire Chief	Robert Grossman	24	Years of Fire Service
Full – Time Deputy Chief Training/Fire Prevention	Cameron Adams	12	Years of Fire Service
Paid on Call Deputy Chief - Operations	Ben Hansler	19	Years of Fire Service
Paid on Call Captain	Adam Malpus	9	Years of Fire Service
Paid on Call Captain	Simone Jaggli	12	Years of Fire Service
Paid on Call Lieutenant	John Harris	10	Years of Fire Service
Paid on Call Lieutenant	Kris Kirchner	7	Years of Fire Service
Paid on Call Lieutenant	Ashton Sonnenburg	9	Years of Fire Service
Paid on Call Firefighter	Jordan Brown	8	Years of Fire Service
Paid on Call Firefighter	Nina Morley	6	Years of Fire Service
Paid on Call Firefighter	Josh Livermore	5	Years of Fire Service
Paid on Call Firefighter	Phillip Middleton	3	Years of Fire Service
Paid on Call Firefighter	Adam Whitworth	3	Years of Fire Service
Paid on Call Firefighter	Alex Wilkes	3	Years of Fire Service
Paid on Call Firefighter	Lloyd Niceforo	3	Years of Fire Service
Paid on Call Firefighter	Cailey Wilkes	3	Years of Fire Service
Paid on Call Firefighter	Paul Quinlan	9	Years of Fire Service
Paid on Call Firefighter	Paul Kainth	16	Years of Fire Service
Paid on Call Firefighter	Stephanie Legebokoff	1	Years of Fire Service
Paid on Call Firefighter	Reece Roberts	0.25	Years of Fire Service
Paid on Call Firefighter	Jessica Smith	0.25	Years of Fire Service
Paid on Call Interior Firefighter	Eric McIntyre	4	Years of Fire Service
Paid on Call Interior Firefighter	Jonathan Campbell	2	Years of Fire Service
Paid on Call Interior Firefighter	Jeff Curto	2	Years of Fire Service
Paid on Call Interior Firefighter	Simon Fry	2	Years of Fire Service
Paid on Call Interior Firefighter	Bruce Johnson	2	Years of Fire Service
Paid on Call Interior Firefighter	Mourad Meratla	2	Years of Fire Service
Paid on Call Interior Firefighter	Paul Stoker	2	Years of Fire Service
Paid on Call Interior Firefighter	David Voroney	2	Years of Fire Service
Paid on Call Interior Firefighter	Michael Zgud	2	Years of Fire Service
Paid on Call Exterior Firefighter	Sarah Miller	4	Years of Fire Service

Paid on Call In-House Exterior Firefighter	Tobias Bethge	1	Years of Fire Service
Paid on Call In-House Exterior Firefighter	Mike Marchment	1	Years of Fire Service
Paid on Call In-House Exterior Firefighter	Travis Welsh	1	Years of Fire Service
Paid on Call In-House Exterior Firefighter	Reece Clark	1	Years of Fire Service
Paid on Call In-House Exterior Firefighter	Marek Obrucnik	1	Years of Fire Service
Paid on Call In-House Exterior Firefighter	Rachel Bailey	1	Years of Fire Service
Paid on Call Recruit	Jackson Chinery	0.25	Years of Fire Service
Paid on Call Recruit	Domenic Curulli	0.25	Years of Fire Service
Paid on Call Recruit	Chris Baddeley	0.25	Years of Fire Service

Pemberton Fire Rescue has a total of 193.3 combined years of Fire Service.

FIRE DEPARTMENT APPARATUS

Pemberton Fire Rescue maintains a fleet of service vehicles which are noted in the photos below. Firefighting vehicles have a limited life span and will age out depending on the type of rescue vehicle. The Village has replaced several vehicles over time and has established in its budget and Five-Year Financial Plan a replacement program that includes setting aside funds to build reserves that will be in place when replacement of a vehicle is required.

The table below is from the Fire Underwriters Survey (FUS), which outlines Fire Apparatus required for an insurance grading to the community.

The next vehicles online for replacement are Engine 10 and Ladder truck (as per FUS requirements).

Typically, when a vehicle is retired it may be kept in the fleet and utilized as a reserve vehicle or may be offered to other community volunteer fire departments.

In 2016 Pemberton donated its 1983 GMC engine to the Meadows Volunteer Fire Department.

Fire Underwriters Survey

Service Schedule for Fire Apparatus for Fire Insurance Grading Purposes

Apparatus Age	Major Cities ³	Medium Sized Cities ⁴	Small Communities ⁵ and Rural Centres
0 – 15 Years	First Line Duty	First Line Duty	First Line Duty
16 – 20 Years	Reserve	2 nd Line Duty	First Line Duty
20 – 25 Years ¹	No Credit in Grading	No Credit in Grading <i>or</i> <i>Reserve ²</i>	No Credit in Grading <i>or</i> <i>2nd Line Duty ²</i>
26 – 29 Years ¹	No Credit in Grading	No Credit in Grading <i>or</i> <i>Reserve ²</i>	No Credit in Grading <i>or</i> <i>2nd Line Duty ²</i>
30 Years +	No Credit in Grading	No Credit in Grading	No Credit in Grading

<i>1 All listed fire apparatus 20 years of age and older are required to be service tested by recognized testing agency on an annual basis to be eligible for grading recognition. (NFPA 1071)</i>
<i>2 Exceptions to age status may be considered in a small to medium sized communities and rural centres conditionally, when apparatus condition is acceptable, and apparatus successfully passes required testing.</i>
<i>3 Major Cities are defined as an incorporated or unincorporated community that has:</i> <ul style="list-style-type: none"> • <i>a populated area (or multiple areas) with a density of at least 400 people per square kilometre; AND</i> • <i>a total population of 100,000 or greater.</i>
<i>4 Medium Communities are defined as an incorporated or unincorporated community that has:</i> <ul style="list-style-type: none"> • <i>a populated area (or multiple areas) with a density of at least 200 people per square kilometre; AND/OR</i> • <i>a total population of 1,000 or greater.</i>
<i>5 Small Communities are defined as an incorporated or unincorporated community that has:</i> <ul style="list-style-type: none"> • <i>no populated areas with densities that exceed 200 people per square kilometre; AND</i> • <i>does not have a total population in excess of 1,000.</i>

The Village of Pemberton requires a Frontline Engine of 15 Years or newer and a Frontline Ladder Truck. The need for a Frontline Ladder Truck is a requirement set out by FUS as the Village of Pemberton has more than three buildings that are 3 stories high.

The table below shows the age and status of the current Pemberton Fire Rescue Apparatus:

Identifier	Manufacturer	Year	Age	Frontline	2nd Line Duty	No Credit or Reserve	No Credit or Reserve
				0 - 15 Years	16 - 20 Years	20 - 25 Years	26-29 years
Engine 1	Spartan Metro Star X	2017	5	X			
Engine 10	Hub Freightliner	1996	26				X
Ladder 1	Spartan Gladiator Ladder Truck 75'	1999	23			X	
E11	Ford F 555 4x4 Crew Cab C.A.F. Unit	2006	16	Not Classified. Does not meet Engine requirements. Meet requirements of Wildland Wildfire Apparatus			
R1	Ford F 555 4x4 Crew Cab Rescue Truck	2011	11	Not Classified. Does not meet Engine requirements. Meets requirements for Motor Vehicle Incidents			

Duty Truck



Engine 1 2017 Spartan Metro Star X Front-Line Engine



Specifications

Chassis

Spartan Metro Star X, MFD 10 inch raised roof

47,000 LB GVWR; 20,000 LB Front / 27,000 LB Rear

Diesel Engine, Cummins ISL9 450 HP EPA 2013 Automatic Transmission, Allison 3000 EVS

Pump

Hale Mid-ship DSD 15001500 USGPM (5678 LPM) (1250 IGPM) at 150 PSI

Foam System Foam Pro 2001 Class A

Tank

975 IG (1110 USG) Poly Tank 25 IG (30 USG) Single Integral Foam Tank

Ladder 1 1999 Spartan Gladiator 75'Ladder Truck Frontline Ladder



Specifications

Chassis

Spartan Gladiator
Anderson Built Smeal Ladder Truck
52,000 LB GVWR
Diesel Engine, Detroit Series 60 475 HP Automatic Transmission, Allison

Pump

Hale Mid-ship QSMG175-23S Pump 1500 IGPM at 150 PSI
Hale Foam Series Pump Class A and Class B

Tank

175 IG Poly Tank 25 IG (30 USG) Single Integral Foam Tank

Engine 10 1996 Hub Freightliner 2nd line Pumper



Specifications

Chassis

Freightliner FL 80

34,700 LB GVWR; 12,000 LB Front / 22,700 LB Rear

Diesel Engine, Cummins 275 HP Automatic Transmission, Allison

Pump

Hale Mid-ship Pump 1050 IGPM at 150 PSI

Pro / portioner Foam Injection System Class A

Tank

975 IG (1110 USG) Steel Tank 25 IG (30 USG) Single Integral Foam Tank

Engine 11 2006 Ford F550 4 X 4 Crew Cab, Wildland Fire unit (C.A.F.S)



Specifications

Chassis

Ford F550 4 X 4 Crew Cab 4 passenger

Pump

Waterous 250 IGPM at 150 PSI

Waterous Foam Injection System Class A with Air

Tank

250 IG Poly Tank Foam is supplied by pails with suction hoses

Rescue 1 2011 Ford F550 4 X 4 Crew Cab Rescue Truck



Specifications

Chassis

Ford F550 4 X 4 Crew Cab 4 passenger

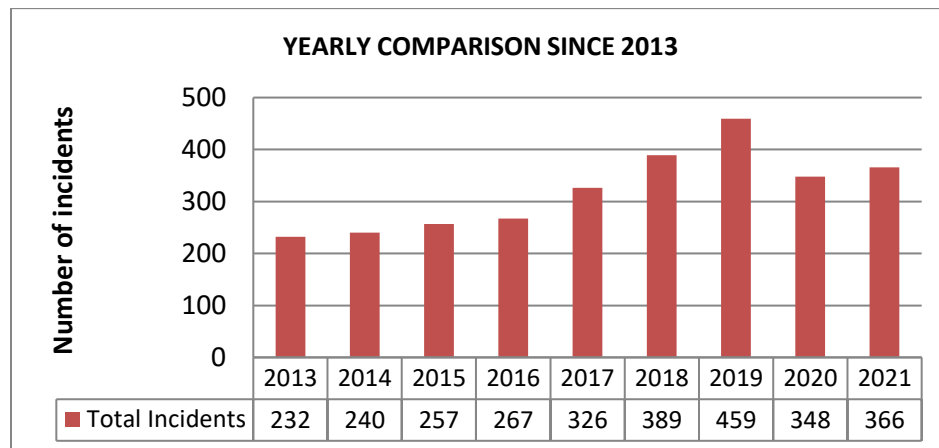
2009 Interstate Cargo Utility Trailer

used for Hazmat, Forestry, and miscellaneous incidents.

EMERGENCY RESPONSE ACTIVITIES 2021

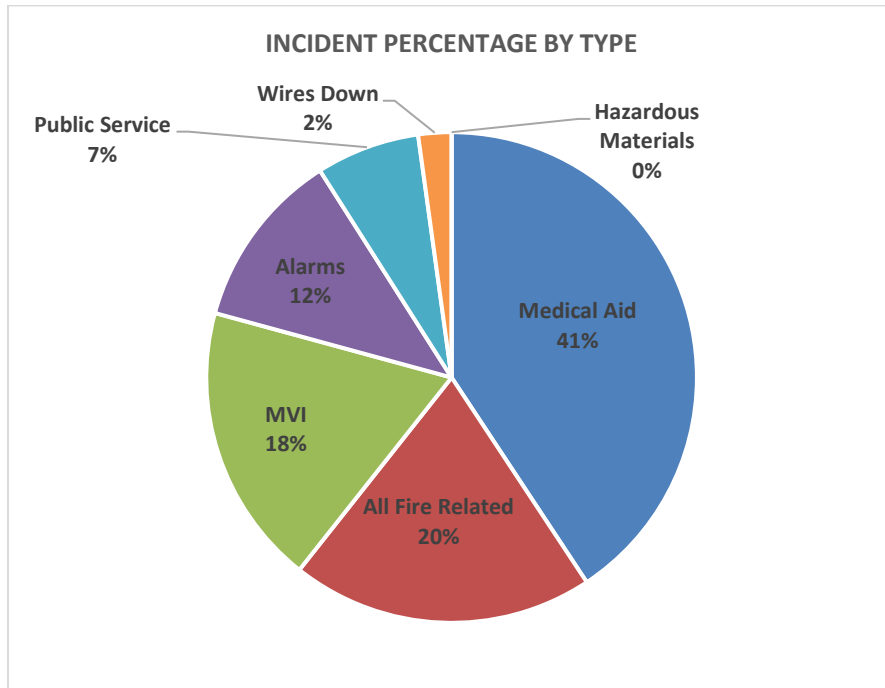
Below are statistics related to emergency response activities undertaken and facilitated by Pemberton Fire Rescue in 2021. This information is also provided in the quarterly reports presented to Council throughout the year.

Pemberton Fire Rescue attended to 366 incidents in 2021.



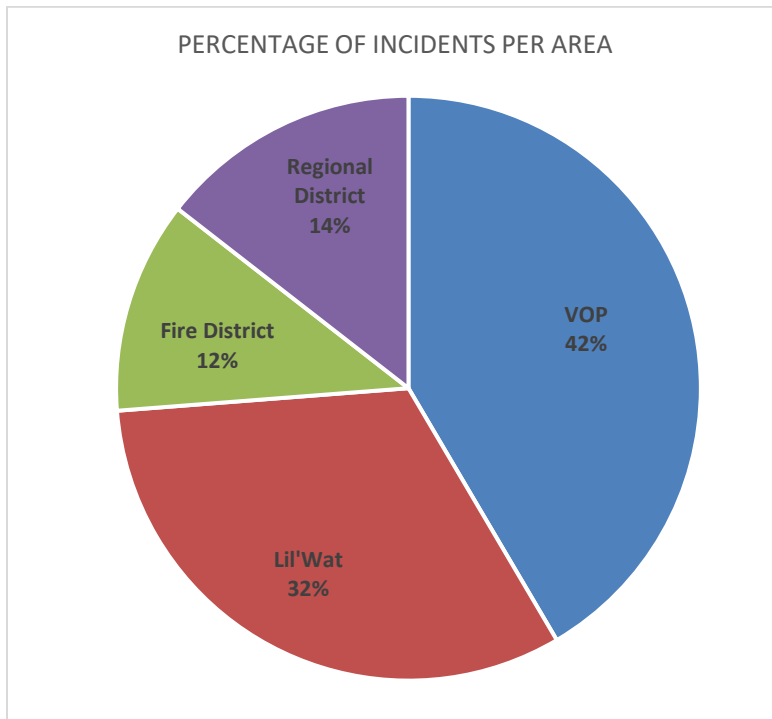
Incidents by Type and Percentage

Totals	366	100%
Medical Aid	149	41%
MVI	68	18%
All Fires	73	20%
Alarms	43	12%
Wires Down	8	2%
Public Service	25	7%
Hazmat	0	0%

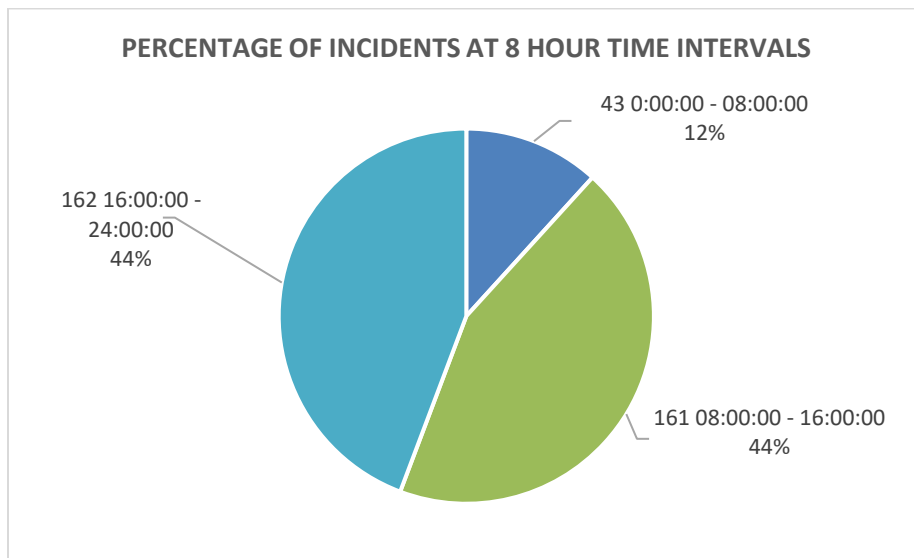


Calls by Type by Location

	Village Boundaries	Lil'wat	Fire District	Regional District
Medical Aid	47	73	21	8
MVI	26	6	1	35
Alarms	28	9	4	2
All Fire Related Calls	33	24	8	8
Wires Down	1	5	2	0
Public Service	17	1	7	0
Hazmat	0	0	0	0
Totals	152	118	43	53
Percentage of Calls by Location	42%	32%	12%	14%



Below is a chart showing percentage of Incidents in a 24-hour period broken into 8-hour increments.



The chart shows how many incidents occur in an eight-hour time segment and on which days the highest number of incidents occur.

