

BURNABY FIRE DEPARTMENT

Public Safety Committee Meeting: 2021 September 29

STATUS REPORT

The following status report is based on information regarding activities available to the end of July 2021.

1. Details on Major Incident occurrences within the City
2. High level Statistic Review to communicate trends within the City, including:
 - 2.1 Suppression Division Statistics
 - 2.2 Fire Prevention Division Statistics
 - 2.3 Training Division Programs
3. Summary of Community Outreach Initiatives, including:
 - 3.1 Community Engagements
 - 3.2 Recruitment Engagements

1. MAJOR INCIDENTS

<i>Event Type:</i>	Heat Event across the City - Region
<i>Date:</i>	2021 Jun 24 - Jul 02, Jul 29 - Aug 01, Aug 11 - 14
<i>Street Address:</i>	Region Wide Event
<i>Proactive Response:</i>	<ul style="list-style-type: none">• BFD Fire Dispatch staffing was increased to effectively manage high call volume• BFD Fire Company numbers were increased to effectively respond to all calls for service• BFD increased operational command officer on duty
<i>Detail:</i>	<ul style="list-style-type: none">• Substantial increase in the public's need for emergency medical aid• The heightened demand for emergency medical service significantly exceeded the available resources across the Metro Vancouver region• Increase in reported cardiac emergencies and sudden deaths• EComm 911 Emergency Call network was overwhelmed by call volume creating long call answering wait times• BC Ambulance Services was overwhelmed with calls for medical aid response and care
<i>Future Impacts:</i>	<ul style="list-style-type: none">• Projected increase in both frequency and magnitude of regional mass emergency events. Including the effects of:<ul style="list-style-type: none">○ Global climate change○ The COVID-19 pandemic○ The opioid & mental health crisis○ Unhoused populations○ Diminishing financial resiliency due to the regional increased cost of living• In order to care for and provide for the needs of its citizens during regional emergency events, such as experienced during the heat dome event of June 2021, there exists strong evidence to suggest a growing need for the City of Burnaby to prepare to be self-reliant, to the greatest extent possible, with regard to emergency call taking, dispatching, medical and fire response.

Event Type: Structure Fire
Date: June 20, 2021
Street Address: 9930 Lyndhurst Dr.
Response: 2nd Alarm:
5 Engines, 2 Ladders, 1 Rescue, 1 Command Unit
Detail:

- Single Family Residential Home
- Fire encompassing entire roof-attic space on arrival
- (1) Citizen, (1) Firefighter taken to hospital

Event Type: Provincial Wildfire Deployments
Date: June 30, 2021 – August 23, 2021
Street Address: Lytton Creek Fire Complex
Response: (1) Task Force Leader, (1) Type 1 Engine Company, (1) Office of the Fire Commissioner Liaison
Detail:

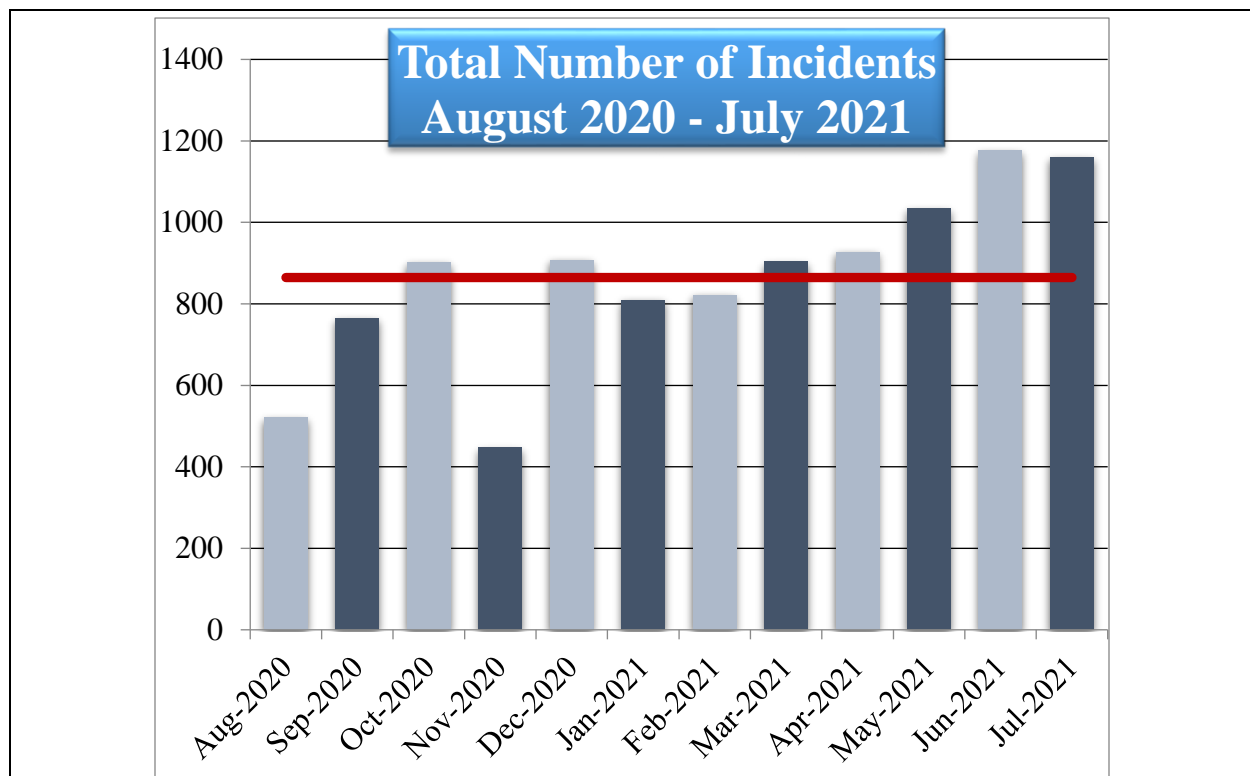
- Burnaby resources are assigned to the Structural Protection Branch within the BC Wildfire Service with the responsibility for proactive and reactive fire operations to defend buildings and critical infrastructure impacted by wildfire events in the Lytton Creek and Logan Lake fire incidents.

Event Type: Motor Vehicle Incident
Date: July 21, 2021 - 17:20 hrs
Street Address: Intersection of Duthie Ave & Montecito Drive
Response: Rescue Task Force:
2 Engines, 1 Rescue, 1 Command Unit
Detail:

- Double Fatality
- Adjacent to an Elementary School

2. STATISTICS REVIEW

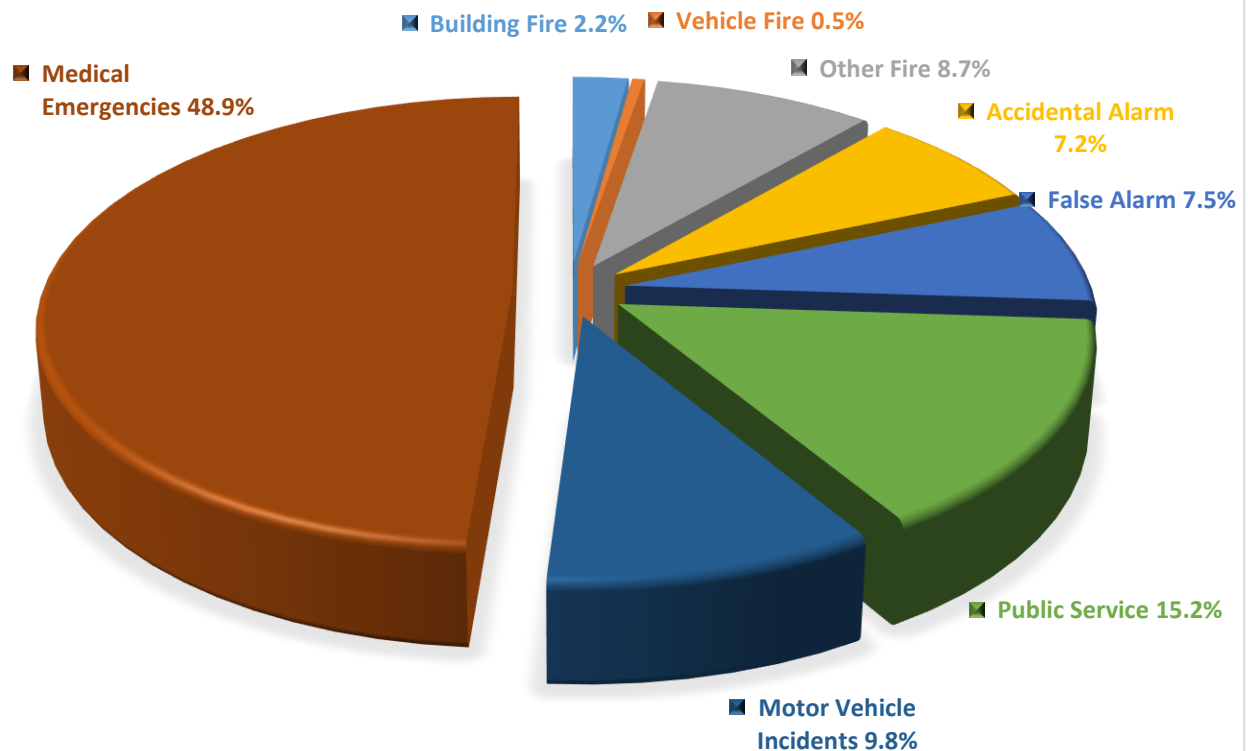
2.1 Suppression Division Statistics



Interpretation:

- In July of 2021 BC Emergency Health Services committed to re-establishing the full use of the Fire Service in pre-hospital care medical responses. This change back to pre-COVID19 protocols is expected to correct the 2020 downturn in total incident responses.
- 2020 Total Incidents: 9,124 -30%
- 2019 Total Incidents: 12,929 -5%
- 2018 Total Incidents: 13,585 -13%
- 2017 Total Incidents: 15,550 +10%
- 2016 Total Incidents: 14,028 +9%

DISTRIBUTION OF INCIDENTS AUG 2020 - JUL 2021

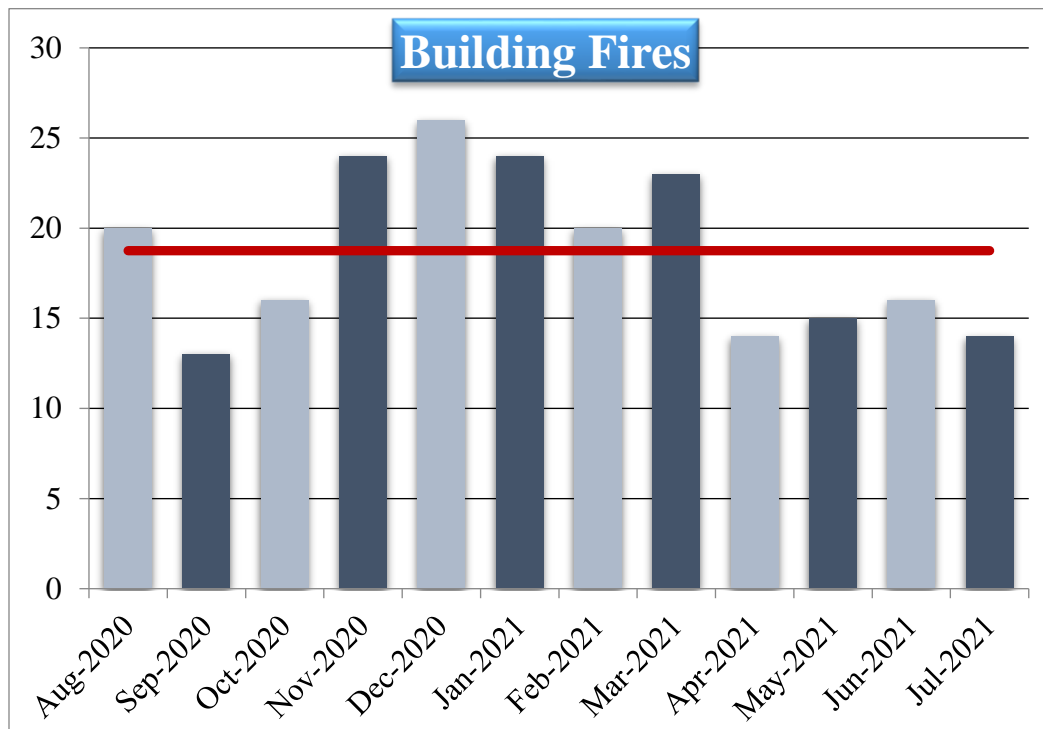


Interpretation:

- To Date 12 Month Distribution**

Fire Incidents:	-5.9%
Motor Vehicle Incidents:	-0.2%
Medical Emergencies:	+6.9%
Public Service:	-0.8%
- 2020 Distribution**

Fire Incidents:	32%
Motor Vehicle Incidents:	10%
Medical Emergencies:	42%
Public Service:	16%

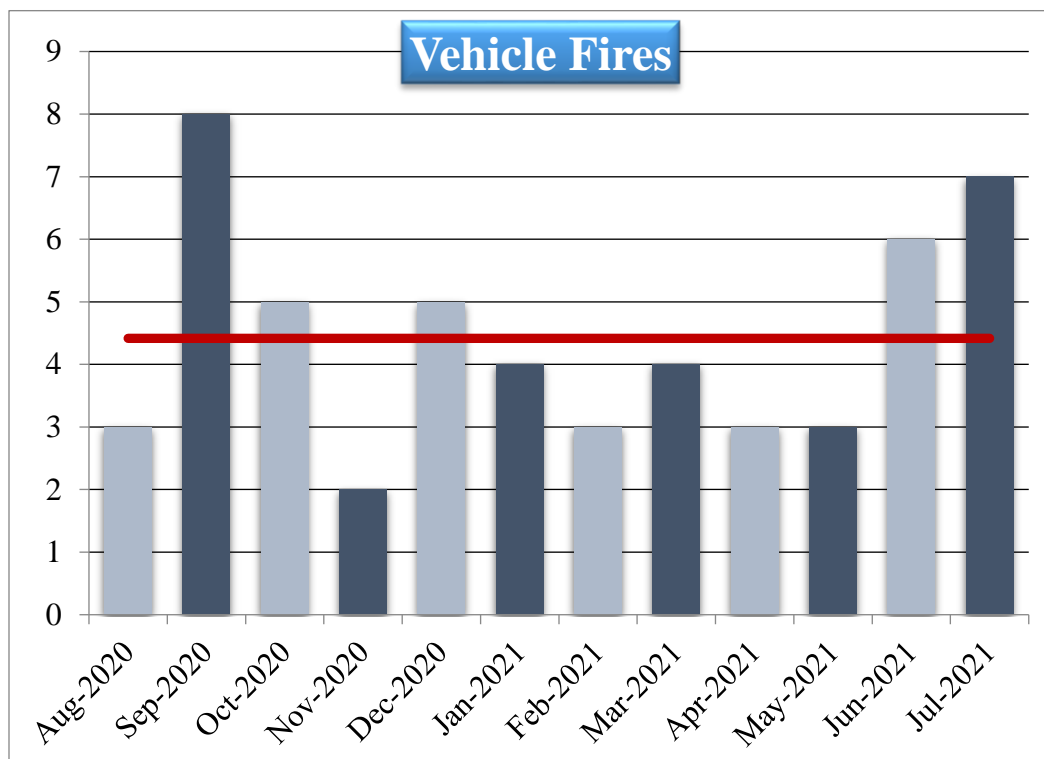


Interpretation:

- *As the density of the City increases the number of multi-unit residential and commercial buildings, the firefighting resources required to attack fires within larger, more complex buildings with more lives present also increases. This leads to an increase in 2nd and 3rd Alarm fire incidents annually.*

Description:

- *Fires within all types of buildings and structures.*

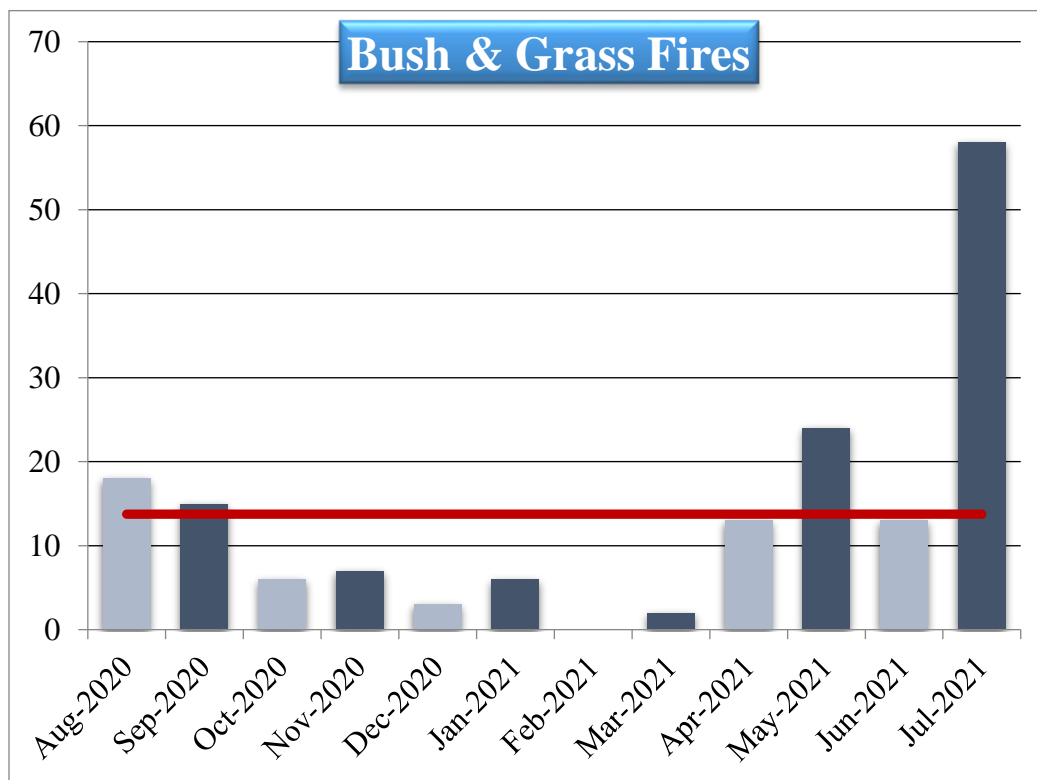


Interpretation:

- *None provided.*

Description:

- *Fire related to all types of vehicles and mobile equipment:*
 - *Automobiles*
 - *Cranes*
 - *Motorcycles*
 - *Tractors*
 - *Trucks*
 - *Boxcars*
 - *Fork-lifts*
 - *Motor homes*
 - *Trailers*
 - *Vans*

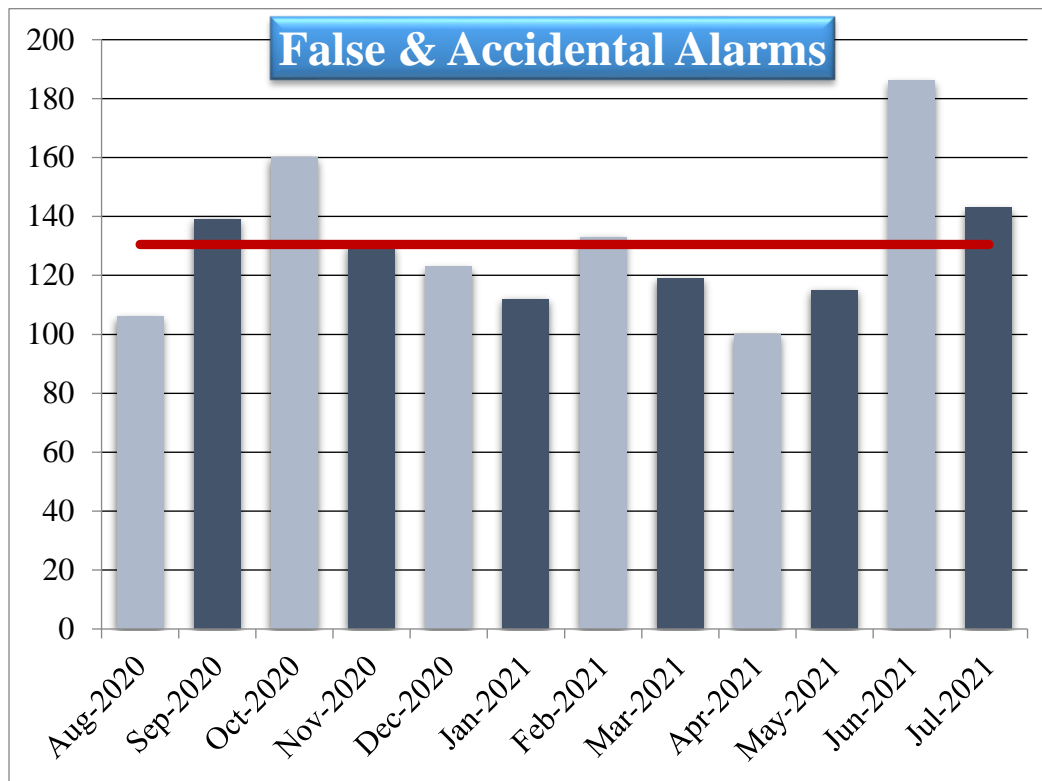


Interpretation:

- Fires in outdoor spaces typically increase during the summer months of the year.
- The drying effects of climate change on City wildland spaces has been notable.
- The dry wildland season now begins early in April and extends to October, a six month period.

Description:

- Fires related to outdoor spaces and lands.



Interpretation:

- *It is expected that with the increasing density of living within the City, and the increase in buildings required to utilize automatic fire detection systems that the number of False & Accidental Alarm incidents will consistently and continually increase.*

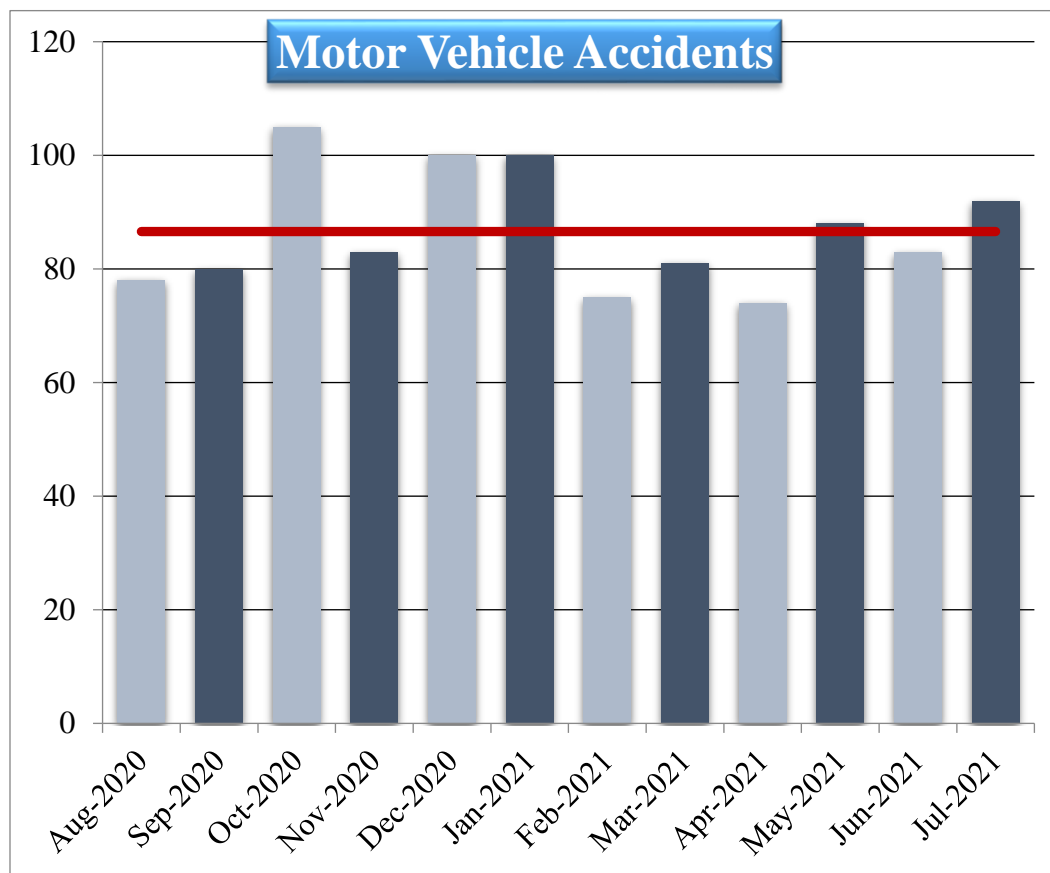
Description:

Accidental Alarm:

- *When there is a malfunction in a fire alarm system*
- *When a fire alarm is inadvertently activated*

False Alarm:

- *When a person deliberately reports a non-existent fire or emergency*
- *When a person deliberately activates an alarm system knowing that there is no fire or emergency*

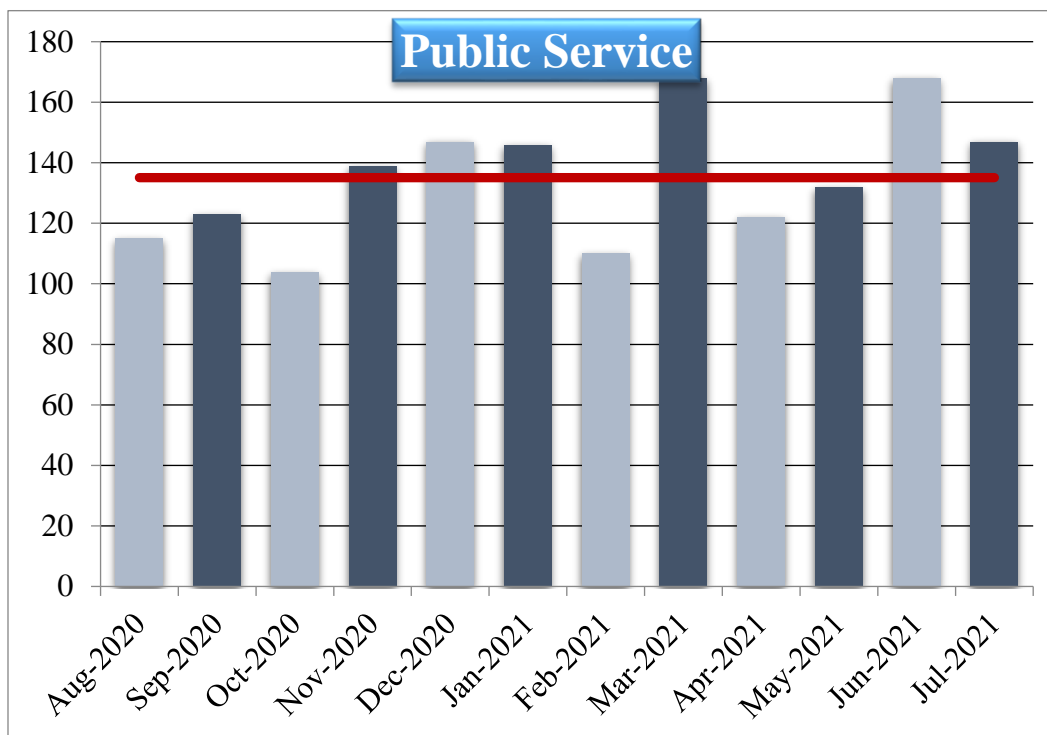


Interpretation:

- *In July of 2021 BC Emergency Health Services committed to re-establishing the full use of the Fire Service in pre-hospital care medical responses. This change back to pre-COVID19 protocols is expected to correct the 2020 downturn in total incident responses.*

Description:

- *Motor Vehicle Accidents with or without injuries.*

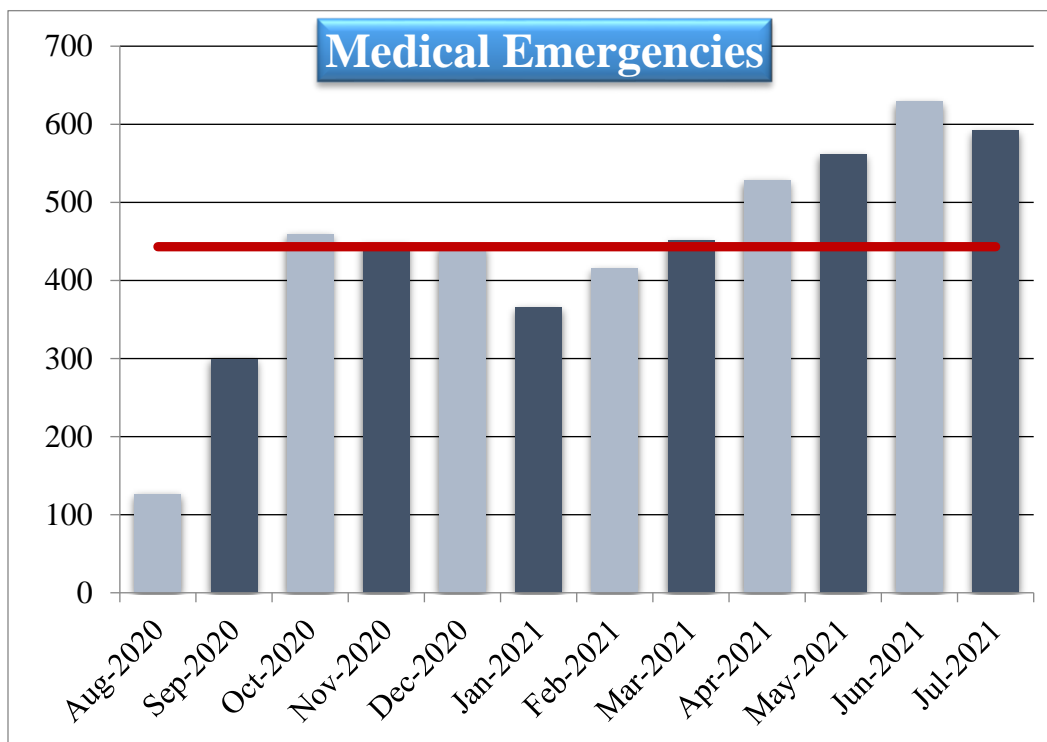


Interpretation:

- *Even through the pandemic with more residents staying at home, the City is identifying increased citizen needs for non-emergency assistance of the Department.*

Description:

- *Assist incapacitated person(s)*
- *Assist person(s) to gain entry*
- *Assist police or other agency*
- *Street/road wash down*
- *Utility wires down*
- *Vehicle problems*
- *Water problems*
- *Miscellaneous*
- *Filming on Location*
- *Public Education/Demonstration/Show & Shines*
- *Tower Crane Survey*

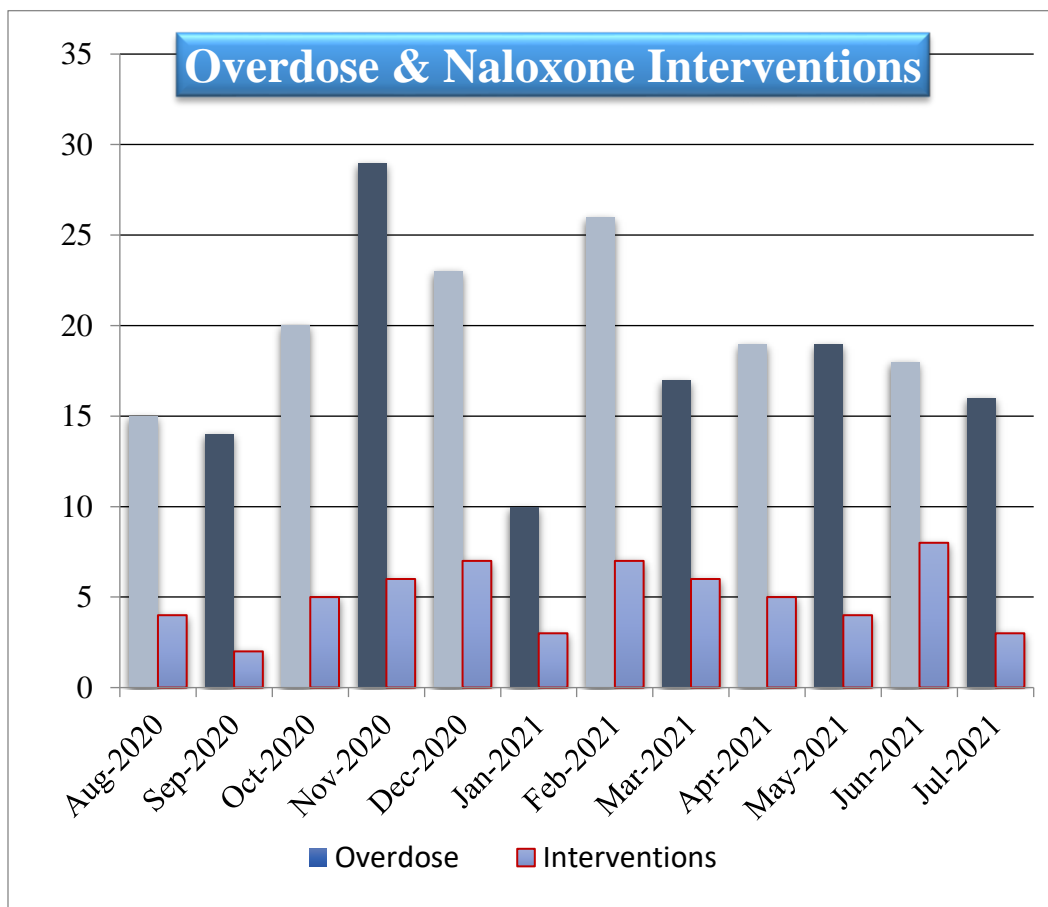


Interpretation:

- *In July of 2021 BC Emergency Health Services committed to re-establishing the full use of the Fire Service in pre-hospital care medical responses. This change back to pre-COVID19 protocols is expected to correct the 2020 downturn in total incident responses.*

Description:

- *Home accidents*
- *Industrial accidents*
- *Sports accidents*
- *Other medical emergencies*
- *Cardiac emergencies*
- *Miscellaneous*
- *Technical rescues*
- *Medical emergencies involving assault*
- *Medical emergencies involving an overdose*



Interpretation:

- *Within Burnaby, the trailing 3 months in 2021 has seen a very slight reduction in the overdose event attended by the Fire Department compared to the spring months of 2021.*

Description:

- *These statistics provide a representation of the total number of overdose based events responded to by the Burnaby Fire Department, with a further identifier of the number of those events where Naloxone is utilized to counteract the impairing substance.*

2.2 Fire Prevention Division Statistics

Approval & Reviews - Completed	May	June	July
Pre-Final Buildings	0	0	0
Building Final Approvals	8	31	19
Fire Safety Plan Approvals	8	6	4
Permit Application Reviews	62	26	55
Alternative Solutions Code Report Reviews	0	0	1
Witnessed Life Safety Functional Tests	10	21	14
Business Licenses	40	55	126
Sprinkler	15	25	18
Day Care Application	0	2	0
Flow Tests	2	1	1
	145	167	238

Investigations - Completed	May	June	July
Fire Investigations Conducted	3	5	4

Initial Inspections									
	Annual	Building	Complaint	Lockbox	Maintenance	On-Site Request	Food Truck	Misc.	Total
2021 June & July - Completed									
High-Rise Buildings	0	0	1	5	0	5	0	0	11
Low-Rise Buildings & Multi Family	2	0	6	7	1	1	0	0	17
Business Complexes (<i>Warehouse, Office</i>)	16	0	0	5	0	2	0	0	23
Base Buildings	7	0	0	1	2	2	0	1	13
Child Care Facilities	1	0	0	0	0	0	0	0	1
Educational Institutions & Schools	2	0	0	0	0	0	0	0	2
Food Trucks	0	0	0	0	0	0	1	0	1
Misc. Building Type	5	0	7	0	0	3	0	0	15
									83

Re-Inspections									
	Annual	Building	Complaint	Lockbox	Maintenance	On-Site Request	Food Truck	Misc.	Total
2021 June to July - Completed									
High-Rise Buildings	1	0	0	1	0	0	0	1	3
Low-Rise Buildings & Multi Family	39	0	0	0	0	0	0	0	39
Business Complexes (<i>Warehouse, Office</i>)	0	0	0	0	0	1	0	0	1
Base Buildings	3	0	0	0	2	1	0	0	6
Child Care Facilities	0	0	0	0	0	0	0	0	0
Educational Institutions & Schools	0	1	0	0	0	0	0	0	1
Food Trucks	0	0	0	0	0	0	0	0	0
Misc. Building Type	0	0	0	0	0	1	0	0	1
									51

2.3 Training Division Programs

<i>Fire Company Training - Completed</i>
<ul style="list-style-type: none">• Live Fire – Township of Langley Training Facility• Burnaby General Hospital Multi-Alarm Incident Command Radio Protocols• Burnaby Mountain Wildland Fire Scenario Large Sprinkler Protection Unit (LSPU) Deployment• Ground Ladder Deployment Training• Microsoft Outlook Quick Reference Guide• Firefighter Gross Decontamination• Fire Command System - ITAC• High Rise Pumping• Company and Recruit Hose Evolutions• Driver Training - Pump Test• Driver Training – Road Test• Driver Training – Compressed Air Foam System (CAFS)• Driver Training – High Rise Pumping• Hazmat for First Responders• Watercraft – First on Scene Training• Watercraft – E4 Deployment to Burnaby and Deer Lakes• Emergency Response Guide

Professional Development Training - Completed

Annual Testing

- Hose
- High Pressure Hose
- Ground Ladders
- N95 Fit testing

Monthly Checks/Calibration

- AED Internal Clock
- Monthly Satellite Phone
- CO Detector

Weekly Maintenance

- Truck Steam Cleaning
- AED Battery
- CO Detector

Fire Officer Training

- Fire Officer 3 Group 1.0 Mod 2 Online course
- Fire Officer 3 Group 2.0 Mod 2 Online course
- Fire Officer 3 Group 1.0 Mod 2 Written Exam
- Triannual AFC/CPA Simsushare Scenarios
- (1) Fire Officer 2 Practical Simsushare 2 Alarm Exam (1)
- Fire Officer 1 Re-Preceptorship Single Alarm Practical Scenarios

Return to Work

- Firefighter and Officer return to work program (2-4 weeks)

Special Operations Training - Completed

Technical Rope Rescue & Confined Space

- Certifications and Re-Certifications
- Confined Space Training

Hazardous Material Responder

- HazMat Operations
- Scenario Based Training
- Air Quality Indexing Trial
- Meter Cross Sensitivity

Rescue Task Force – Heavy Rescue & Rapid Intervention

- Auto Extrication Scenarios
- Unrestricted Driver Certification
- RIT Review

Watercraft– Ice Rescue

- Burnaby Lake Water Operations
- Deer Lake Water Operations
- Trailering Equipment

Wildland Firefighting

- LSPU Operations
- Strategies and Tactics

3. COMMUNITY OUTREACH INITIATIVES

3.1 Community Engagements

<i>Event Type:</i>	BHRT (Burnaby Hoarding Response Team)
<i>Date:</i>	On-Going
<i>Detail</i>	<ul style="list-style-type: none">• Established a Four Member Committee• Research and Design of a Hoarding Pilot Project<ul style="list-style-type: none">○ Creating Timelines○ Risk Assessment Tools○ BFD Pre-Interview Form○ Consent to Enter via BC Fire Commissioner• Pilot Projects initiated re: (2) Hoarding cases• Resuming in person meetings of the team

<i>Event Type:</i>	BMART (Burnaby Mobilization and Resiliency Table)
<i>Date:</i>	On-Going
<i>Detail</i>	<ul style="list-style-type: none">• RCMP engaged with BFD and BGH• In person meetings resume in September

<i>Event Type:</i>	BCAT (Burnaby Community Action Team)
<i>Date:</i>	On-Going
<i>Detail</i>	<ul style="list-style-type: none">• Maintain and present Burnaby Fire Overdose Statistics• Peer Talks: Life Stories of Addiction via Zoom• Naloxone Nasal Spray: Burnaby Pilot Program• BFD presentation at upcoming Overdose Day Event

<i>Event Type:</i>	Burnaby School Outreach Engagement Life Safety Presentations
<i>Date:</i>	On-Going
<i>Detail</i>	<ul style="list-style-type: none">• Research, Design, Implementation• Chief Instructional Officer School Board interface via Zoom• Development of (3) Fire Life Safety presentations• Development of a presentation for coming school year• Exploring a joint Task Force with RCMP

<i>Event Type:</i>	Social Media
<i>Date:</i>	On-Going
<i>Detail</i>	<ul style="list-style-type: none">• Established City Hall connection• Implementing Content & Timelines for seasonal media feeds• Preparing Fire related content for social media

<i>Event Type:</i>	Burnaby Fire Setter Program
<i>Detail</i>	<ul style="list-style-type: none">• Program Complete: Up and Running

<i>Event Type:</i>	City Website
<i>Date:</i>	On-Going
<i>Location:</i>	Station 7
<i>Detail</i>	<ul style="list-style-type: none">• Live with new content – Project Complete

<i>Event Type:</i>	Social Media
<i>Date:</i>	On-Going
<i>Location:</i>	TBD
<i>Detail</i>	<ul style="list-style-type: none">• Life Safety and Throw Back Thursdays events• Developing virtual tours and mini-presentations in joint effort with City Marketing Team

<i>Event Type:</i>	SCAC (Shelter Community Advisory Committee)
<i>Date:</i>	On-Going
<i>Location:</i>	Douglas Rd Shelter
<i>Detail</i>	<ul style="list-style-type: none">• Report on BFD emergency responses• Provide professional input – on fire and life safety

3.2 Recruitment Engagements

<i>Activity:</i>	Recruitment
<i>Date:</i>	June - July, 2021
<i>Detail</i>	<ul style="list-style-type: none">• (9) Candidate Information Sessions, Zoom meeting discussion on hiring process, requirements and preferred qualifications• (5) Resume reviews: candidates submit reviews for suggested improvements and addition, format, etc.• Burnaby Website Editing – Career Section and Sub Sections• Camp Ignite Mentors - Burnaby Fire information package (possible future candidates)• Preparation for Orientation, Physical Attitude Test and upcoming Ride-Along process• Fitness booklet for Candidate Preparation for Physical Attitude Test

<i>Activity:</i>	Inclusion
<i>Date:</i>	June - July, 2021
<i>Detail</i>	<ul style="list-style-type: none">• City of Burnaby Trans Inclusion Working Group• IAFF Center for Excellence - Molly Jones L.S.W. 2022 Mental Health presentation planning review of (4) potential Mental Health Presentations• University of Alberta – Indigenous Canada Certificate complete, (12) weeks detailed course on Canada’s indigenous peoples history, struggles and future• EHN Canada - Diversity and Inclusion – Mental Health and Substance abuse in Indigenous Community Webinar participation• CFCA – Rapid Response Diversity and Inclusion – “Gender” Course 3 of 6

<i>Activity:</i>	Fire Department Marketing
<i>Date:</i>	June - July, 2021
<i>Detail</i>	<ul style="list-style-type: none">• “Just another day at office” posters printed, will be distributed and displayed in City owned properties

<i>Activity:</i>	Projects in Development
<i>Date:</i>	June - July, 2021
<i>Detail</i>	<ul style="list-style-type: none">• Outreach within Department to current members• Pre-Recruitment Workshops for target recruit candidates<ul style="list-style-type: none">○ Edmonton Fire Camp Inspire○ Edmonton Fire Cadet Program• Introduction to Fire Fighting for Women Meeting with Surrey Fire Service Chief Morris discussed Surrey program, future visit of Class• Media/Marketing Development with Burnaby Marketing Department

<i>Activity:</i>	Outreach
<i>Date:</i>	June - July, 2021
<i>Detail</i>	<ul style="list-style-type: none">• Camp Ignite:<ul style="list-style-type: none">○ Paul Arthur (Burnaby Schools)○ Jean Woo (Burnaby Schools)○ Selection of candidate to be sponsored• RCMP cooperation with Fire Department school outreach, developing new contacts and involvement with Local 323 – Meetings with constable AJ Jubbal

Conclusion

In addition to the information within this report, the Fire Department would like to communicate the following issues for consideration by the Public Safety Committee:

- Through the summer season, the Department had been maintained in a heightened state of readiness based on the increased risk of structure and wildland fire events due to the extreme heat and drying conditions present within our city and the province. There was significant concern that during the summer month's dry trends within forest spaces across the province presents an increased risk of wildland fire to forested areas, parks spaces and residential homes in close proximity to these green spaces. The Burnaby Mountain Conservation Area by its nature as a pristine environmental space is at high risk of wildfire caused by limited opportunities to provide fuel management activities, the general drying of the forest due to regional weather change, and increased human use and interactions.
- The provincial state of emergency related to the wildfires, was a concern and proved taxing across the fire service. As a result of significant weather changes in late August, the risk to the province from wildfire events was dramatically reduced.
- Within Burnaby, the trailing 3 months in 2021 has seen a very slight reduction in the overdose event attended by the Fire Department compared to the spring months of 2021. However, these statistics are still very concerning.

Chris Bowcock
FIRE CHIEF

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