

11:35pm 5/2/19

until 700

Initial Attach.

### Incident Management Structure

Prepared by:  
Position:  
Date/time:  
Build/Draw your structure and fill in positions, names & radio call signs [RCS]

**Incident Controller**

Name: [Redacted]  
RCS: [Redacted]

**Information** [Redacted]  
**Safety** [Redacted]  
**Liaison** [Redacted]

**Planning/Intelligence**

Name: [Redacted]  
RCS: [Redacted]

**Operations** (Deputy)

Name: [Redacted]  
RCS: [Redacted]

**Logistics**

Name: [Redacted]  
RCS: [Redacted]

Situation [Redacted]  
Resources [Redacted]  
Management support [Redacted]  
Intelligence/Information [Redacted]  
Advanced planning [Redacted]

[Redacted] (ops)

Supplies [Redacted]  
Facilities [Redacted]  
Communication [Redacted]  
Medical [Redacted]  
Catering [Redacted]  
Finance [Redacted]

Structure Protection (FCP) [Redacted]  
[Redacted] (ICP)

Rural Crews across a Structure Protection

Structure Protection Crews

### Operational Tasking

Sector	Resource	Task	Grid	Tasked at hrs
Pigeon	Pigeons	Create Water Points		2330
	NPI Animal Welfare	Flying in team		2000

Any Question Ring [Redacted]

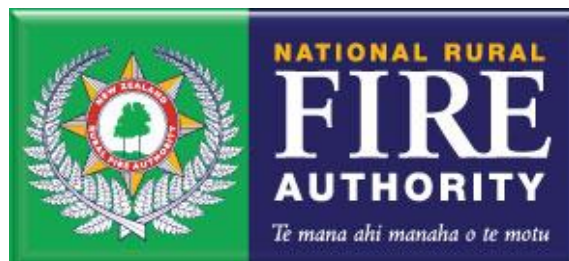
# IAP Cover Sheet

## INCIDENT ACTION PLAN

The items checked below are included in the incident Action Plan

- SITUATION REPORT
- INCIDENT OBJECTIVES
- ORGANISATIONAL LIST
- SECTOR ASSIGNMENT
- DIVISIONAL ASSIGNMENT
- AIR OPERATIONS PLAN
- COMMUNICATION PLAN
- SAFETY PLAN
- MEDICAL PLAN
- FIRE MAP
- WEATHER FORECAST AND MAP
- FIRE BEHAVIOUR FORECAST
- FACILITIES LAYOUT PLAN

Approved by Incident Controller:	Signed	Date/Time



1. Pigeon Valley	2. 6Feb2019 0700 to 1900
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# Situation Report

RF201

1. Incident Name Pigeon Valley	2. Operational Period	SITUATION REPORT RF201
	Date 6 <sup>th</sup> Feb 20 Time 04:30	
3. Location Pigeon Rd, Eves Valley ,Tasman	4. Vegetation Forest/Scrub/Grass/Slash/	5. NZ TM Grid Ref. 41°22'32.51"S 173° 1'31.81"E
<b>6. Assessment</b>  <p>A large scrub/ forest fire is currently burning estimated to be 1870ha at 00:30 hrs with a perimeter of 20km.</p> <p>Values at risk are life and property.</p> <p>We have unconfirmed reports of potential property losses in Eves Valley and Redwood Valley</p> <p>The Eves Valley sawmill is at risk and fire crews are carrying out structural protection on structures.</p> <p>Evacuations have occurred in the</p> <ul style="list-style-type: none"> <li>• Eves Valley,</li> <li>• Golden Hills Rd,</li> <li>• Redwood Valley Rd</li> <li>• Mallings Rd</li> <li>• Greenacres Rd</li> </ul> <p>We have confirmed records of 74 households (97 people) evacuated.</p> <p>Notice of potential evacuations in place for Sunrise Valley (top end), Deepdale Rd (Upper Moutere), Pigeon Valley and South Pigeon Valley.</p> <p>Crews are working in these areas as much as they can do safely, but fire conditions are proving challenging. At times crews have needed to retreat from property protection as dense smoke and ember attack meant conditions were too dangerous.</p>		

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**7. Action taken**

Six helicopters worked on the fire during yesterday afternoon and evening and another six are confirmed for this morning for suppression activities. Two fixed wing planes have also been requested for this morning.

A National Incident Management Team has been organised to assist the operations and is planned to commence arrival at 10am this morning.

Extreme fire behaviour has made it difficult for ground crews to directly work on the fire. These crews are being tasked with structure protection and controlling the fire when it has spotted onto grassland.

**8. Factors**

On Tuesday strong winds fanned the forest fire and the fire itself was creating its own extreme fire behaviour. Fire behaviour at night was still very active with highly flammable grass and scrubland carrying the fire.

The wind shift to a light northerly at midnight, is now forecast to happen at dawn (Wednesday)

**9. Predicted Incident Development**

Rates of spread were very fast on the afternoon and evening of the first day with the fire travelling 5km in 6 hours, through production forest area and into cured grassland.

Rates of spreads decreased during the night but with highly flammable fuels, the fire behaviour is extreme and unpredictable.

Winds are planned to ease in the morning possibly with a small amount of rain and a northerly change. Strong northerly winds are expected to develop this afternoon (Wednesday 6<sup>th</sup> Feb). Contingency plans for this are currently being worked on.

<p>10. Prepared by: [REDACTED]          Authorised by [REDACTED] (Incident controller)</p>	<p>Date/Time 04:30 6<sup>th</sup> Feb 2019</p>
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# Incident Objectives

RF202

<p><b>3. Overall Incident Objectives</b></p> <ul style="list-style-type: none"> <li>Protect life (Public and Residents)</li> <li>Protect Property</li> <li>Identify and keep stakeholders informed</li> <li>Ensure Firefighter Safety</li> <li>Identify and protect Critical Infrastructure</li> <li>Transition to NIMT using shadow process by 1500hrs</li> <li>Protect Other Assets (Forests, crop etc)</li> <li>Prepare for Northerly Wind Change</li> <li>Contain then Extinguish fire</li> </ul>
<p><b>4. Objectives for specified Operational Period</b></p> <ul style="list-style-type: none"> <li>Protect life (Public and Residents)</li> <li>Identify and keep stakeholders informed</li> <li>Allow for Firefighter Safety</li> <li>Identify and protect Critical Infrastructure</li> <li>Transition to NIMT by 1500hrs</li> <li>Establish High volume Water Supplies</li> <li>Protect property and critical infrastructure by establishing hard containment lines with heavy equipment or Identify opportunities for laying down retardant ahead of wind change to protect property/infrastructure</li> <li>Establish trigger points with 3hrs lead-time for evacuations</li> </ul>

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# Organisation List

RF203

3. Incident Control		Cell Phone	Radio Ch
Incident Controller	██████████ (Day)	██████████	
Deputy IC	██████████ (Night)		
Information Officer	██████████		
Safety Officer	██████		
Liaison Officer			
4. Agency Representative		Cell Phone	Radio Ch
Lead Agency	FENZ ██████████ PRFO	██████████	
Agency	Police ██████████ ██████████		
Agency	CDEM ██████████ CDEM Duty Phone		
Agency	FENZ Urban Liason ██████████ ██████		
5. Planning/Intell Section		Cell Phone	Radio Ch
Planning/Intell Manager	██████████	██████████	
Situations Unit	██████████ (Night)		
	██████████ (Day)		
	██████████ (Day)		
	██████████ (GIS)		
	██████████		
Resources Unit	██████████ (EoC)		
	██████████ (Caravan Check in)		
Management Support Unit	██████████		
Information Unit			
Advance Planning Unit			
Technical Specialists Unit			
6. Logistics Section		Cell Phone	Radio Ch

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<b>1. Pigeon Valley</b>	<b>2. 6Feb2019 0700 to 1900</b>
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Logistics Manager	██████████ (Day)	██████████	
	██████████ (Night)		
Supply Unit	██████████		
Catering Unit	██████████		
Facilities Unit			
Finance Unit			
Communications Unit			
Welfare Unit	██████████	██████████	
Medical Unit	██████████		
Ground Support Unit			

<b>7. Operations Section</b>		<b>Cell Phone</b>	<b>Radio Ch</b>
Operations Manager	██████████	██████████	Waimea 1
Deputy Operations Manager	██████████		Waimea 1
Division Pigeon Commander	██████████		Fire 1
Division Hayton Commander	██████████		Fire 2
Division Teapot Commander	██████████		Fire 3
Division Redwood Commander			Fire 1
Division Moutere Commander	██████████		Fire 2
Division Two Commander			
Sector E Supervisor			
Sector F Supervisor			
Sector G Supervisor			
Sector H Supervisor			
Air Division Commander			
Air Attack Supervisor	██████████	██████████	Fire 4
Air Support Supervisor	██████████		

<b>Prepared by:</b> ██████████	<b>Date:</b> 6Feb2019	<b>Time:</b> 0445
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# Sector Assignment

RF204

<b>3. Sector</b>		<b>4. Description</b>		<b>5. Division Assigned</b>	
<b>6. Sector Supervisor</b>		Affiliation	Cellphone	Radio Ch	
<b>7. Resources Assigned this period</b>					
<i>Resource/Crew</i>	<i>Leader</i>	<i># Persons</i>	<i>Transport Required</i>	<i>Drop-off Point/time</i>	<i>Pickup Point/time</i>
<b>8. Sector Assignment / Special Instructions</b>					
<b>9. Sector Communications</b>				<i>Phone</i>	<i>Radio Ch</i>
Division/Division Cmdr					
Air Attack Supervisor					
Safety Officer					

Prepared by: [REDACTED]	Date: 6Feb2019	Time: 0445
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# Division Assignment

RF204a

<b>3. Pigeon</b>		<b>4. Point of ignition to Dove Saddle</b>	
<b>6. Sector Commander</b> ██████████	Affiliation Tasman VRRF	Cellphone ██████████	Radio Ch Fire 1
<b>6. Resources Assigned this Period</b>			
<i>Sector</i>	<i>Supervisor</i>	<i>Crews</i>	<i>Radio Ch</i>
2 Taylors D8 jd850	1x HEQB		
2 Taylors Excavator	1xHEQB		
Tasman VRRF 4px West Coast ██████████ +3px			
1 Smoke chaser + 2px Hira			
1 Appliance + 4px Hira			
1 rural tanker			
<b>7. Division Assignment/Special Instructions</b> <b>Protect Life and Property</b> <b>Keep Residents and Stakeholders informed in preparation for potential north easterly wind change</b> <b>Dozer to establish hard containment lines for property/infrastructure protection</b> <b>Excavator to Establish high volume water supplies Wai-iti river Baigents Rd first and end of Hoult Valley Rd second</b> <b>Provide Situation Report to Situations Unit at least every two hours</b> <b>*Laydown Retardant to protect properties</b>			
<b>8. Division Communications</b>		<i>Phone</i>	<i>Radio Ch</i>
Operations Manager _____			
Air Division Commander _____			

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# Division Assignment

RF204a

3. Haytons	4. Point of ignition to Teapot Valley Rd end
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6. Sector Commander [REDACTED]	Affiliation DoC Motueka	Cellphone [REDACTED]	Radio Ch Fire 2
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6. Resources Assigned this Period			
Sector	Supervisor	Crews	Radio Ch
TLC Bulldozer D7	[REDACTED]		
TLC Excavator			
Appleby VRFF 4px North Canterbury [REDACTED] [REDACTED] +3px Nelson Lakes VRFF 4px			
1x smoke chaser			
1x appliance			
2x rural tanker			

**7. Division Assignment/Special Instructions**  
 Protect life and Property  
 Keep Residents and Stakeholders informed in preparation for potential north easterly wind change  
 1x Excavator establish High Volume Water Points Wai-iti River end of Bird Lane  
 1x Bulldozer for Property/Infrastructure Protection and Establish hard containment line along Haytons Rd  
 Ground crew begin 5m blackout of flank  
 Provide Situation Report to Situations Unit at least every two hours  
 \*Laydown Retardant to protect properties

8. Division Communications	Phone	Radio Ch
Operations Manager _____		
Air Division Commander _____		

Prepared by: [REDACTED]	Date: 6Feb2019	Time: 0445
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## Division Assignment

RF204a

<b>3. Teapot</b>		<b>4. Eves Valley Rd to Golden Hills Rd</b>	
<b>6. Sector Commander</b> ██████████	Affiliation Wakefield VFB/NML	Cellphone ██████████	Radio Ch Fire 3
<b>6. Resources Assigned this Period</b>			
<i>Sector</i>	<i>Supervisor</i>	<i>Crews</i>	<i>Radio Ch</i>
1 Taylors Bulldozer D8			
1 Taylors Excavator			
Wakefield VFB 4px DoC crew 4px Ngatimoti VFFF 4px			
4x Urban crew			
2x rural tankers			
<b>7. Division Assignment/Special Instructions</b> Protect life and Property Keep Residents and Stakeholders informed in preparation for potential north easterly wind change Establish High Volume Water supply end of Bells rd Wai iti River with Excavator 1x Bulldozer for Property/Infrastructure Protection first, Establish hard containment line on Eastern Flank/Eder Rd? Urban crew for Protection of Eves Valley Mill or other properties as required Provide Situation Report to Situations Unit at least every two hours *Laydown Retardant to protect properties			
<b>8. Division Communications</b>		<i>Phone</i>	<i>Radio Ch</i>
Operations Manager			
Air Division Commander			

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## Division Assignment

RF204a

3. Redwood		4. Golden Hills Rd to Cut Hill Rd	
6. Sector Commander <b>Urban Officer to be Confirmed</b>		Affiliation FENZ	Cellphone
			Radio Ch Fire 1
6. Resources Assigned this Period			
<i>Sector</i>	<i>Supervisor</i>	<i>Crews</i>	<i>Radio Ch</i>
1 Dozer Burson D65 Komatsu			
1 TLC Excavator			
AFM 4px DoC crew 4px			
7. Division Assignment/Special Instructions Protect Life and Property Keep Residents and Stakeholders informed in preparation for potential north easterly wind change Evacuation and notification of preparation for evacuation Excavator to identify and establish access for high volume water supply in existing ponds 1x Bulldozer for Property/Infrastructure Protection assisted by ground crew Contain fire South of Moutere Highway and West Golden Hills Rd Urban crew for protection of Eves Valley Hazardous Landfill Provide Situation Report to Situations Unit at least every two hours *Laydown Retardant to protect properties and provide containment			
8. Division Communications		<i>Phone</i>	<i>Radio Ch</i>
Operations Manager			
Air Division Commander			

Prepared by: <span style="background-color: black; color: black;">XXXXXXXXXX</span>	Date: 6Feb2019	Time: 0445
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1. Pigeon Valley	2. 6Feb2019 0700 to 1900
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## Division Assignment

RF204a

3. Moutere		4. Cut Hill Rd to Dove Hill Saddle	
6. Sector Commander ██████████	Affiliation Bruce Forestry	Cellphone ██████████	Radio Ch Fire 2
<b>6. Resources Assigned this Period</b>			
<i>Sector</i>	<i>Supervisor</i>	<i>Crews</i>	<i>Radio Ch</i>
Taylor's Hitachi 20T Excavator (on site)		Taylor's	TPFL Ops 2
1 TLC Excavator ?			
1 Taylor's Dozer			
3x 4px crews TBC 1000hrs? 2x 4px mid Canterbury West Coast 4px			
<b>7. Division Assignment/Special Instructions</b> Protect Life and Property Keep Residents and Stakeholders informed in preparation for potential north easterly wind change Excavator to Identify and Establish high volume water access to existing ponds 1x Bulldozer for Property/Infrastructure Protection, sunrise valley, establish escape routes Taylor's Excavator to establish escape route/access down Supplejack Valley rd and Sunrise/Heines rd Provide Situation Report to Situations Unit at least every two hours *Laydown Retardant to protect properties			
<b>8. Division Communications</b>		<i>Phone</i>	<i>Radio Ch</i>
Operations Manager			
Air Division Commander			

Prepared by: ██████████	Date: 6Feb2019	Time: 0445
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7. Air Operations Special Equip or Service

# Communications Plan

RF205

3. Radio Channels				
<i>Assigned To</i>	<i>Function</i>	<i>Channel</i>	<i>Frequency</i>	<i>System</i>
Command		Waimea 1	152.55000 RX 154.33125 TX	
Division Pigeon	Operational	Fire 1	143.82500	
Division Hayton	Operational	Fire 2	143.78750	
Division Teapot	Operational	Fire 3	140.92500	
Division Redwood	Operational	Fire 1	143.82500	
Division Moutere	Operational	Fire 2	143.78750	
Air Ops -Heli	Operational	Fire 4	140.61250	
Air Ops – Fixed Wing	Operational	Fire 10	140.98750	
Emergency		Waimea 1	152.55000 RX 154.33125 TX	
FireCom		FireCom		
4. Telephone				
<i>Assigned To</i>	<i>Landline</i>	<i>Cell phone</i>	<i>Fax</i>	<i>Comments</i>
Emergency		111		
Regional Command Centre (RCC)				
6. Other (e.g. email, Satphone, etc)				
GIS Mapping	planning.intelligence@nelsontasmancdem.govt.nz			
ICP	Reception.nelsontasman@fireemergency.nz			
Command Unit	<a href="mailto:lcu.nelson@fireemergency.nz">lcu.nelson@fireemergency.nz</a>			

Prepared by: [REDACTED]	Date: 6Feb2019	Time: 0445
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# Safety Plan

RF209

### 3. General Safety Points

Everyone is to be signed in and out of the fire ground through the Incident Control Point for both safety check and payment records.

Maintain regular situation reports (containing all relevant information) via line supervisors.

LACES	Fire Orders	Watchouts
<p><b>L</b> - Lookout(s)</p> <p><b>A</b> – Awareness</p> <p>    – Anchor Point(s)</p> <p><b>C</b> – Communication(s)</p> <p><b>E</b> – Escape Route(s)</p> <p><b>S</b> – Safety Zone(s)</p>	<ol style="list-style-type: none"> <li>1. conditions and forecasts</li> <li>2. Know what your fire is doing at all times.</li> <li>3. Base all actions on current and expected fire behaviour of the fire.</li> <li>4. Identify escape routes and safety zones and make them known.</li> <li>5. <b>Post</b> lookouts when there is possible danger.</li> <li>6. <b>Stay</b> alert. Keep calm, Think clearly, act decisively.</li> <li>7. Maintain prompt communication with your crew/s, your supervisor and adjoining crews.</li> <li>8. Give clear instructions and ensure they are understood.</li> <li>9. Maintain control of your crew/s at all times.</li> <li>10. Fight fire aggressively having provided for safety first.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fire size is unknown (no size up).</li> <li>2. Unfamiliar territory</li> <li>3. Safety zones and escape routes not identified.</li> <li>4. Unfamiliar with weather and local factors influencing fire behaviour.</li> <li>5. No communications link with crew members or supervisor.</li> <li>6. Instructions and assignments not clear.</li> <li>7. Weather is getting hotter , drier and relative humidity dropping</li> <li>8. Wind increases and/or changes direction.</li> <li>9. Getting frequent spot fires across the line</li> <li>10. Working uphill or downwind of a fire</li> <li>11. Working on a steep slope</li> <li>12. Working in rugged terrain</li> <li>13. Can't see main fire</li> <li>14. In unburnt vegetation</li> <li>15. Walking through hot ashes</li> <li>16. Working alone</li> <li>17. Getting tired</li> <li>18. Working near power lines</li> <li>19. Working near machinery</li> <li>20. Working with aircraft</li> <li>21. Working around trees or spars</li> </ol>

### 4. Specific Safety Points

- **Access points into fire controlled. Only those authorized to enter and they must receive a brief and be logged in. Time and access point**
- **Public access Managed**
- **Weather fire behaviour monitored for changes and communicated to crews. Risk identified to crews**
- **All crews to have adequate food, water, PPE to manage fatigue and hydration**
- **Crews to have identified emergency escape routes and emergency plan in the event of harm. Meeting point identified once evacuated.**
- **All workers to ensure they are competent for the tasks and risks given.**
- **Air and ground crews to be isolated from risk areas during operations.**
- **Potential methane flares (Division Hayton) from Eves Valley Landfill**



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# Medical Plan

RF206

3. First Aid Station		Phone/Radio	Paramedics			
Name	Location	Channel	available at Station			
Each Crew must have available one First aid Level 1 Certified	Each crew					
Nelson 91 Ambulance	Forward command post	Waimea 1	1 Paramedic and 1 EMT			
4. Transportation		Phone/Radio	Paramedics			
Ambulance Service	Address	Channel	available with Ambulance			
Ambulance St Johns	Richmond station	111	Yes			
	Motueka/Stoke Nelson/					
5. Hospitals		Phone	Travel Time		Burn	Heli
Hospital Name	Address		Road	Air	Unit	Pad
Nelson Public Emergency	Waimea Rd.	035461800	27m	4min	y	y
Hutt Hospital (Burn Unit)		045666999	n/a	40min	Y	y
6. Special Emergency Procedures						
Emergency Helicopter stationed at Nelson Airport "111"						
8. Reviewed by Safety Advisor:					Date/Time	

Prepared by: [REDACTED]	Date: 6Feb2019	Time: 0445
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FIRE WEATHER FORECAST

For Location [REDACTED] Pidgeon Valley near Wakefield

Issued by MetService at 01:38am 06-Feb-2019, and valid for the following 9 hours

Wind: Light southerly (5-10km/h) turning northeast to northerly around dawn.

**Precipitation:**

A few light showers this morning may bring about 1-2mm of rain, clearing late morning.

**Temperature:**

About 16C, rising to 20C midday.

**Humidity:** 70%, lowering to 50% midday.

**Outlook for the next 12 hours :**

Northeast to northerly winds rising to 20 to 30km/h in the afternoon.

Weather becoming fine, with temperatures in the low 20's this afternoon, humidity 40-50%.

Winds easing in the evening and turning light southeast to southerly.

**Outlook for next 6 days:**

Thursday: Light winds, sunny, dry and max temperature around 21C.

Friday: Light winds, sunny, dry and max temperature around 20C.

Saturday: Light winds, sunny, dry and max temperature around 22C.

Sunday: Northerlies, partly cloudy, a few light showers and max temperature about 22C.

Monday: Northerlies and rain, max temperature arond 21C.

Tuesday: Light winds, sunny and max temperature around 23C.

Fire Indices for Wednesday 6<sup>th</sup> Feb 2019

FFMC 86 (easy Ignition)

DMC 96.8

DC 457

ISI 4.7 (moderately fast rate)

BUI 126 (Extreme)

FWI 20.8 (high fire intensity)

Prepared by: [REDACTED]	Date:6Feb2019	Time: 0445
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### FIRE BEHAVIOUR FORECAST

<b>Fire name:</b> Pigeon Road				<b>Prediction for:</b> 0800-1800 06 Feb-19					
<b>Prepared by:</b> ██████████				<b>Time and date issued:</b> 0300 Feb 19					
<b>Forecast no.</b> 1				Day Shift					
<i>Assumptions:</i>				<i>today's forecast</i>					
<b>Temp</b>	<b>RH</b>	<b>Wind</b>	<b>Slope *</b>	<b>FFMC</b>	<b>DMC</b>	<b>DC</b>	<b>ISI</b>	<b>BUI</b>	<b>FWI</b>
17	71	13	0	86	97	457	4.7	127	21

Rates of spread are the equilibrium rate of spread, not the build-up phase, with continuous fuel and similar fuel type.

**Fire Behaviour General:**

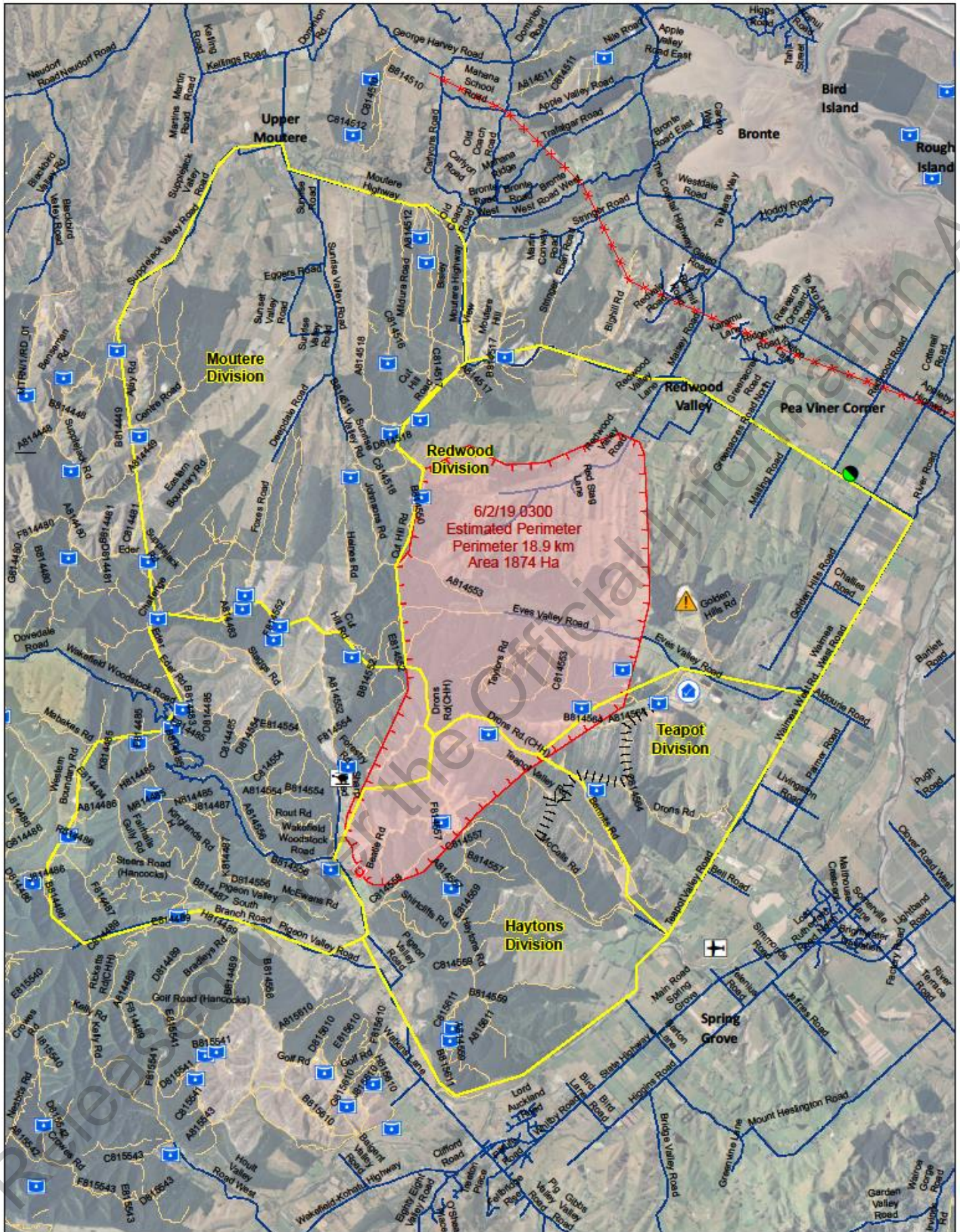
Released under the Official Information Act

<b>Prepared by:</b> ██████████	<b>Date:</b> 6Feb2019	<b>Time:</b> 0445
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<b>Expected fire behaviour</b> – slope 0°	<b>Forecast</b> worst case – 28°C 45%RH slope 20° 1400-1800
<i>Fuel type: Mature Pine – 5m pruned</i>	<i>Fuel type: Mature Pine – 5m pruned</i>
Expect HF rate of spread of 10-40 m/hr HF Intensity 200-700 kw/m Flame lengths 1-1.5	Expect HF rate of spread of 200 m/hr HF Intensity 2100 kw/m Flame lengths 3 m
<i>Fuel type: Scrub/gorse 2m height</i>	<i>Fuel type: Scrub/ gorse 2m height</i>
Expect HF rate of spread of 500-1000 m/hr HF Intensity <10000 kw/m Flame lengths 7.2 m	Expect HF rate of spread of 3000 m/hr HF Intensity >10000 kw/m Flame lengths 13 m
<i>Fuel type: Grass-70% GC, 100% cover, 0.1m height</i>	<i>Fuel type: Ungrazed Grass -70% GC, 100% cover, 0.2m height</i>
Expect HF rate of spread of 100-200 m/hr HF Intensity 150-350 kw/m Flame lengths 1.2 m	Expect HF rate of spread of 600 m/hr HF Intensity 1050 kW/m Flame lengths 2 m
<b>Safety Considerations:</b>	
Head Fire intensity, and flank fire intensity exceed threshold for direct attack in gorse/ scrub fuels.	Head Fire intensity exceed threshold for direct attack in gorse and mature pine fuels, and flank fires in gorse. Flank fires intensity is now too high for ground crews
. Northerly change in the morning will move the head of the fire to the south/ eastern flank as the wind strengthens during the day. The nature of the fuels means that fire behaviour has the potential for extreme fire behaviour especially with wind, temperature and fuel changes.	

Prepared by: [REDACTED]	Date: 6Feb2019	Time: 0445
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Date saved: 6/02/2019, 0417 hrs  
Prepared by: kilmenys

Coordinate System: NZGD 2000 New Zealand Transverse Mercator  
Projection: Transverse Mercator  
Datum: NZGD 2000  
Units: Meter  
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Scale at A3 1:52,511

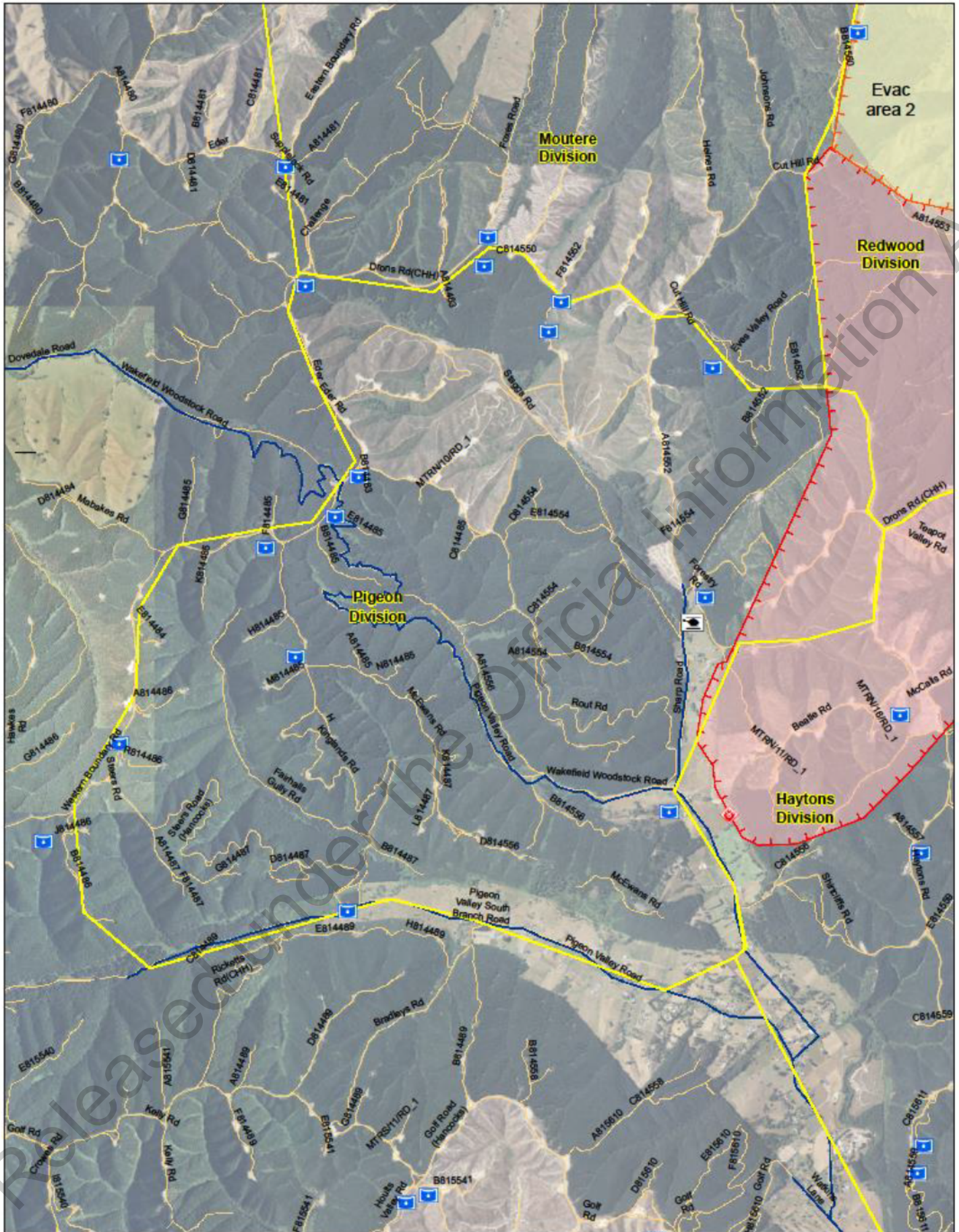


0 0.25 0.5 1 km

- Eves Valley Landfill
- Eves Valley Sawmill
- Fire Origin
- Forward Control Point
- Helicopter base
- Fire Sectors
- Pigeon Valley Fire Extent
- Pigeon Valley Fire Extent



## Pigeon Valley Fire Overview

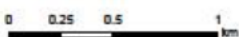


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Scale at A3 1:25,000

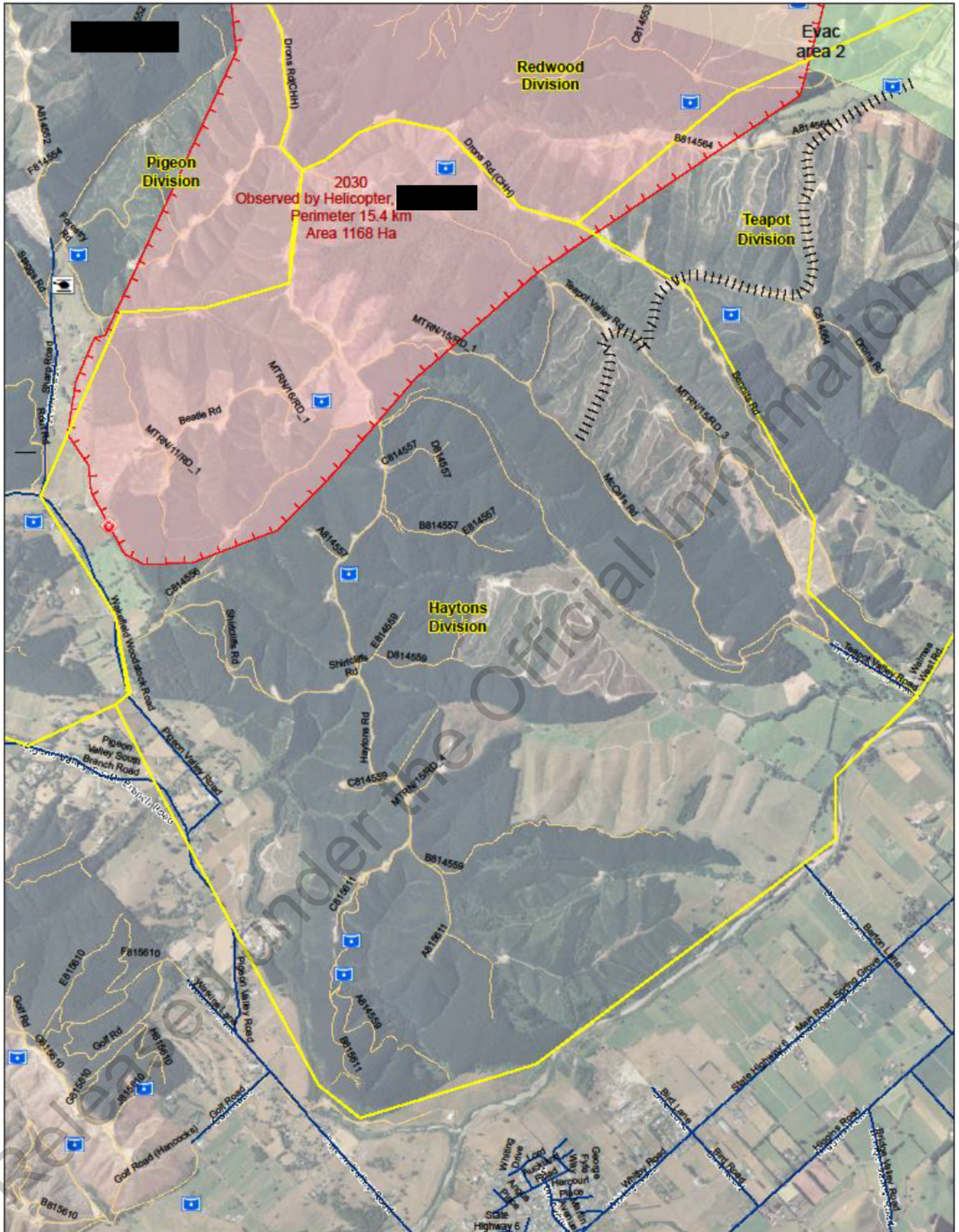


**Legend**

- Waterpoints
- Fire Origin
- Helicopter base
- FireSectors
- Pigeon Valley Fire Extent**
  - Estimated based on Police report at Malsey Road
  - Observed by Helicopter.



**Pigeon Division**

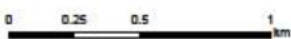


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Prepared by: kilmenys

Coordinate System: NZGO 2000 New Zealand Transverse Mercator  
Projection: Transverse Mercator  
Datum: NZGO 2000  
Units: Meter  
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Scale at A3 1:20,000

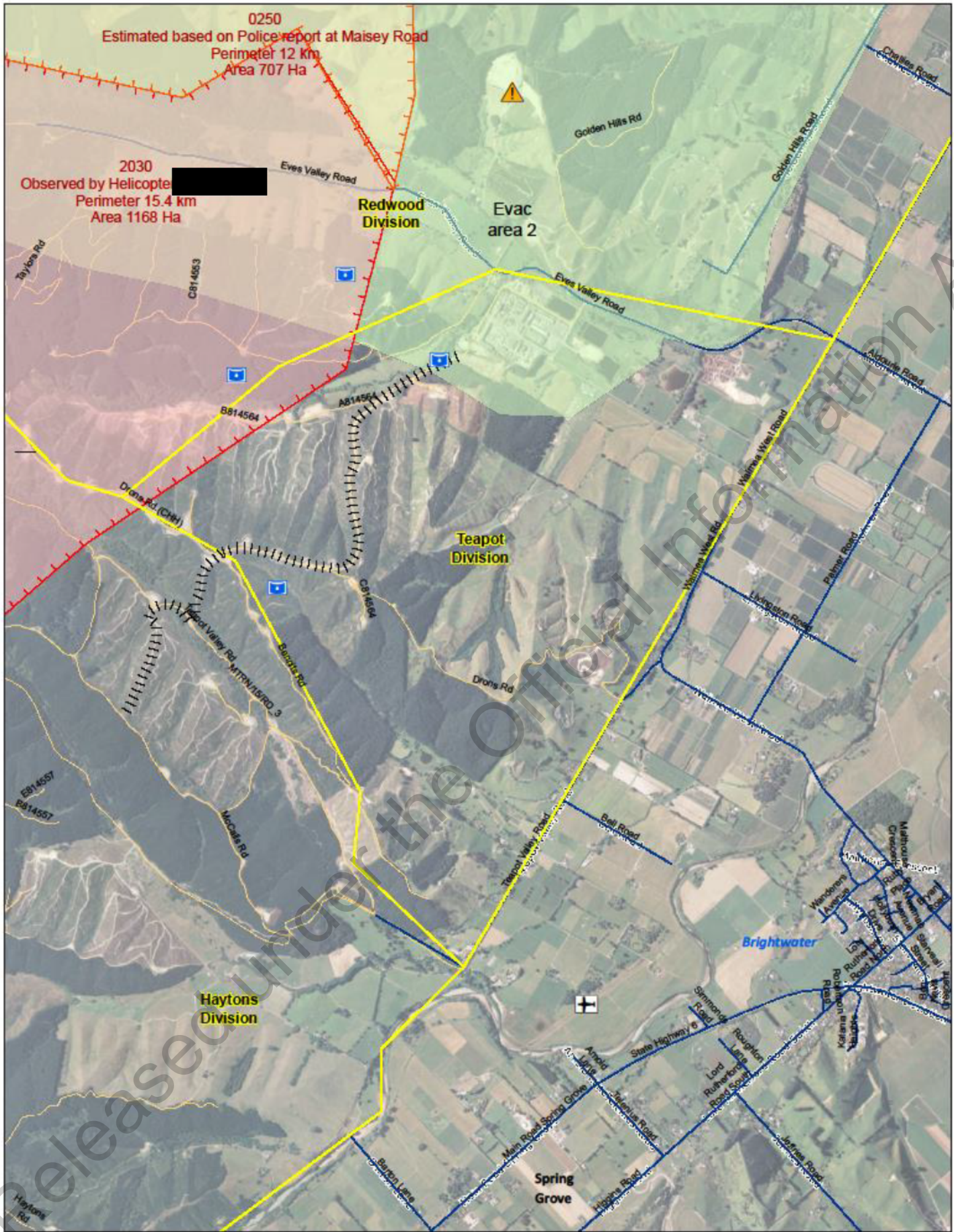


**Legend**

- Waterpoints
- EM\_EventLine
- Fire Origin
- Helicopter base
- FireSectors
- Pigeon Valley Fire Extent
- Observed by Helicopter, [redacted]



Haytons Division



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Prepared by: kilmenys

Coordinate System: NZGO 2000 New Zealand Transverse Mercator

Projection: Transverse Mercator

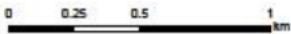
Datum: NZGO 2000

Units: Meter

Sourced from Land Information New Zealand data.

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Scale at A3 1:20,000



**Legend**

Waterpoints

EM\_EventLine

Airstrip

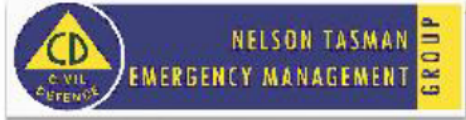
Eves Valley Landfill

FireSectors

**Pigeon Valley Fire Extent**

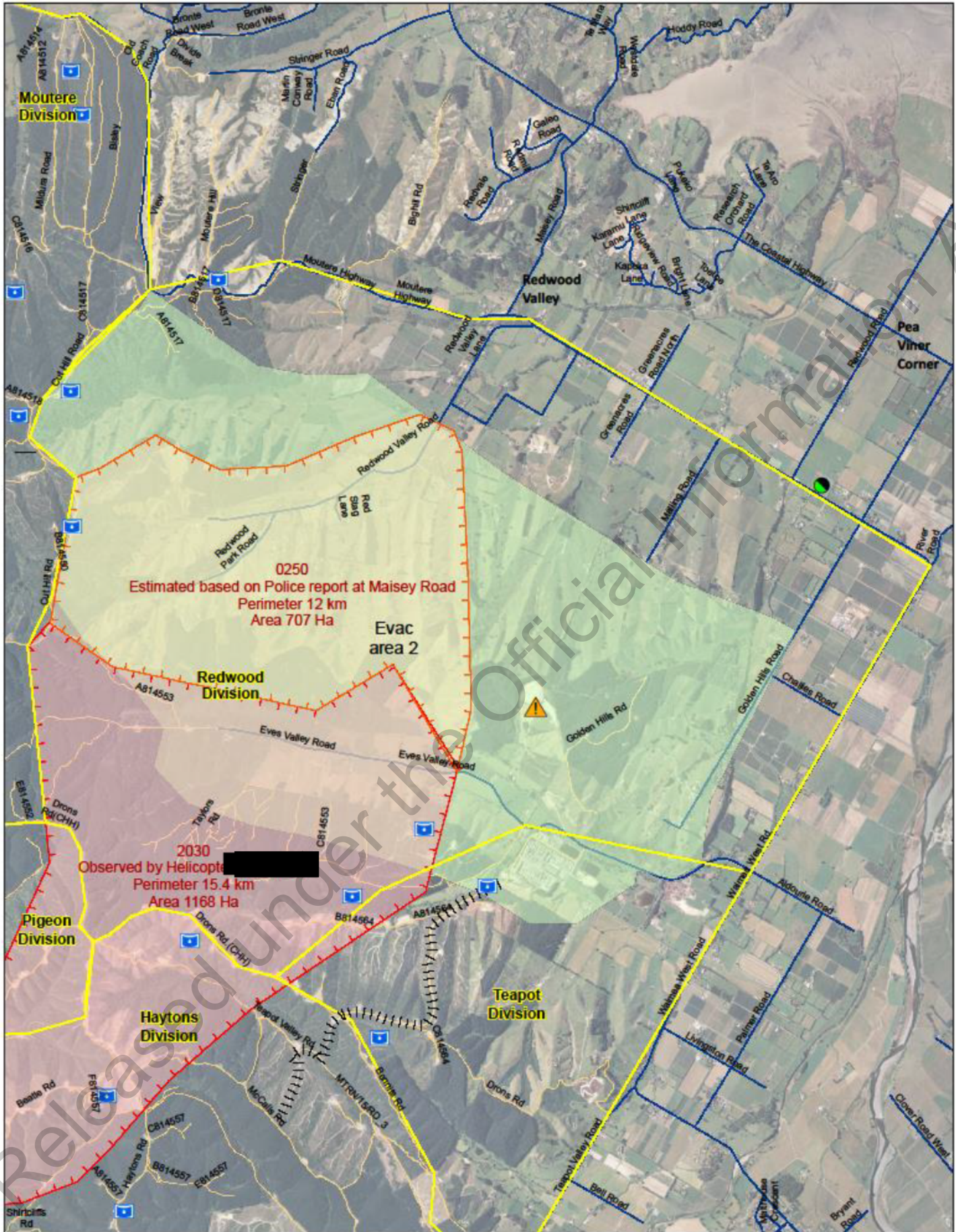
Estimated based on Police report at Maisey Road

Observed by Helicopter, [redacted]



Teapot Division



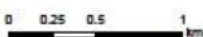


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Date saved: 6/02/2019, 0346 hrs  
Prepared by: kilmenys

Coordinate System: NZGO 2000 New Zealand Transverse Mercator  
Projection: Transverse Mercator  
Datum: NZGO 2000  
Units: Meter  
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Scale at A3 1:30,000



**Legend**

- Waterpoints
- EM\_EventLine
- Eves Valley Landfill
- Forward Control Point
- FireSectors
- Pigeon Valley Fire [redacted]
- Estimated based on Police report at Malsey Road
- Observed by Helicopter, [redacted]



Redwood Division

Night

6 Feb → 7 Feb 2019.

1900 → 0700

Finance Copy

IC

- Safety

6/2/19.

Ops Manager

Pigeon Valley

Moutere

Teapot Valley

Redwood

Rabbit Island

Maytons

• Puklowski x 11 (3)

• Tasman VRFF x 8 (8)

• Tasman Tanker 2111 (1) (9)

• AFM x 5 (1)

• Packer x 3 (2)

• Concrete metals

10000L tanker (2) (3)

• Appleby 4x4 2 people (3) (4)

• Buck x 6 (1)

• Mitchell x 6 (2)

• V. Takaka x 7 (4)

• V. Takaka Tanker (3)

• Higgins Tanker 10KL (4)

• Nelson 212 appl. (5)

• Appleby Tanker (5)

• Buck x 7 (2)

• NFM x 12 (5)

• 801 ?

• Marohau Smoke chaser x 4 (1)

• Nelmac x 4 (2)

• Higgins Tanker (6)

• Brightwater x 8 (4) Tanker (7)

2 High volume pumps

2/19

Doger  
Digger 1  
Tanker 7  
and more 1

3) 9+4+6+4+6+2

122  
~ 140

7/2/19

0700 - 1900

# IAP Cover Sheet

## INCIDENT ACTION PLAN

The items checked below are included in the incident Action Plan

- SITUATION REPORT
- INCIDENT OBJECTIVES
- ORGANISATIONAL LIST
- SECTOR ASSIGNMENT
- DIVISIONAL ASSIGNMENT
- AIR OPERATIONS PLAN
- COMMUNICATION PLAN
- SAFETY PLAN
- MEDICAL PLAN
- FIRE MAP
- WEATHER FORECAST AND MAP
- FIRE BEHAVIOUR FORECAST
- FACILITIES LAYOUT PLAN

Approved by Incident Controller:



Signed

Date/Time

7/2/19  
1810



1. Pigeon Valley	2. 7Feb2019 0700 to 1900
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# Situation Report

RF201

1. Incident Name Pigeon Valley	2. Operational Period	SITUATION REPORT RF201
	Date 6 <sup>th</sup> Feb 2019 Time 1330	
3. Location Pigeon Rd, Eves Valley ,Tasman	4. Vegetation Forest/Scrub/Grass/Slash/	5. NZ TM Grid Ref. 41°22'32.51"S 173° 1'31.81"E

## 6. Assessment

A large scrub/ forest fire is currently burning estimated to be 1870ha at 12:30 hrs with a perimeter of 22km.

Values at risk are life and property, assets.

Confirmed minor property damaged. Unconfirmed reports of potential property losses in Eves Valley and Redwood Valley.

The Eves Valley sawmill is at risk and fire crews are carrying out structural protection on structures. Telecommunications site on the end of Cooks Rd (near Wakefield) is at risk with northerly wind.

Evacuations have occurred in the

- Eves Valley,
- Golden Hills Rd,
- Redwood Valley Rd
- Mallings Rd
- Greenacres Rd

We have confirmed records of 170 households evacuated.

Evacuation of North and South Pigeon Valley, Teapot Valley, Eves Valley, Redwood Park, Malling Rd and Golden Hills Rd.

Notice of potential evacuations in place for Sunrise Valley (top end), Deepdale Rd (Upper Moutere).

Crews are working on most areas on the ground safely and are progressing fire containment due to more favourable weather conditions.

Prepared by [REDACTED]	Date:7Feb2019	Time: 1500
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**7. Action taken**

14 Helicopters managed fire as requested throughout the day

Firebreaks being located to manage NNE wind change.

More predictable fire behaviour has made the fire ground more accessible for ground crews in particularly on the Northern front. These crews are being tasked with structure protection and controlling the fire when it has spotted onto grassland. Black out work has commenced in this area.

**8. Factors**

On Tuesday strong winds fanned the forest fire and the fire itself was creating its own extreme fire behaviour. Fire behaviour at night was still very active with highly flammable grass and scrubland carrying the fire. Wednesday day brought a change in wind direction pushing the fire back into the burnt stand areas and changing fire fronts along with more benign fire behaviour from lower temperatures and higher RH.

Light winds and higher relative humidity's have prevailed through the day enabling crews to move into direct attack.

**9. Predicted Incident Development**

The prevailing weather is supporting fire fighter activities with an increased in containment of existing fire lines. This will continue based on the forecast until unfavourable weather conditions occur. Significant reduction in the rate of spread due to current weather.

10. Prepared by: [REDACTED]  
 Authorised by [REDACTED] (Incident controller)

Date/Time 16:30 6<sup>th</sup> Feb 2019

## Incident Objectives<sup>RF202</sup>

### 3. Overall Incident Objectives

Protect life (Public and Residents, firefighters)

Protect Property

Identify and keep stakeholders informed

Ensure Firefighter Safety

Identify and protect Critical Infrastructure

Transition to NIMT using shadow process by 1500hrs

Protect Other Assets (Forests, crop etc)

Prepare for significant wind/weather change

Containment lines constructed

- Haytons division; Wakefield cell tower retardant line, Firebreak at the base of the hill in the grass paddock
- Teapot Valley; back up the firebreak around the Eve's Valley Sawmill with retardant
- Redwood Valley ; Progress firebreaks during northly winds
- Moutere; Assessing situation and developing a containment plan. Looking to develop a additional firebreak along Eder road and the southern end of Cuthill?

Contain then Extinguish fire

### 4. Objectives for specified Operational Period

Protect life (Public and Residents)

Identify and keep stakeholders informed

Allow for Firefighter Safety

Sectorise each divisional area

Identify and protect Critical Infrastructure

Transition to NIMT by 1500hrs

Establish High volume Water Supplies

Protect property and critical infrastructure be establishing hard containment lines with heavy equipment or Identify opportunities for laying down retardant ahead of wind change to protect property/infrastructure

Establish trigger points with 3hrs lead-time for evacuations

# Organisation List

RF203

3. Incident Control		Cell Phone	Radio Ch
Incident Controller	[REDACTED] (NIMT)		
Ops Strategy advisor	[REDACTED] (NMIT)		
Information Officer	[REDACTED]	[REDACTED]	
Safety Officer	[REDACTED] (NMIT)		
Liaison Officer			
4. Agency Representative		Cell Phone	Radio Ch
Lead Agency	FENZ [REDACTED] PRFO	[REDACTED]	
Agency	Police [REDACTED]	[REDACTED]	
Agency	CDEM [REDACTED] CDEM Duty Phone	[REDACTED]	
Agency	FENZ Urban Liason [REDACTED]	[REDACTED]	
5. Planning/Intell Section		Cell Phone	Radio Ch
Planning/Intell Manager	[REDACTED]	[REDACTED]	
Situations Unit	[REDACTED] (FBAN) [REDACTED] (Day) [REDACTED] (Day) [REDACTED] (GIS) [REDACTED] (GIS) [REDACTED] (Observer) [REDACTED] (Observer) +2	[REDACTED]	
Resources Unit	[REDACTED] (EoC) [REDACTED] (Caravan Check In)	[REDACTED]	
Management Support Unit	[REDACTED]		
Information Unit			
Advance Planning Unit			
Technical Specialists Unit			

6. Logistics Section		Cell Phone	Radio Ch
Logistics Manager	[Redacted] (NMIT)	[Redacted]	
	[Redacted] (Day)		
	[Redacted] (Night)		
Supply Unit	[Redacted]		
Catering Unit	[Redacted]		
Facilities Unit			
Finance Unit			
Communications Unit			
Welfare Unit	[Redacted]		
Medical Unit	[Redacted]		
Ground Support Unit			

7. Operations Section		Cell Phone	Radio Ch
Operations Manager	[Redacted]		Waimea 1
Deputy Operations Manager	[Redacted]		Waimea 1
Ops Planning	[Redacted]		Waimea 1
Division Pigeon Commander	[Redacted]		Fire 1
Division Hayton Commander	[Redacted]		Fire 2
Division Teapot Commander	[Redacted]		Fire 3
Division Redwood Commander	[Redacted]		Fire 1
Division Moutere Commander	[Redacted]		Fire 2
Division Two Commander			
Sector E Supervisor			
Sector F Supervisor			
Sector G Supervisor			
Sector H Supervisor			
Air Division Commander	[Redacted] (NMIT)		
Air Attack Supervisor	[Redacted]	[Redacted]	Fire 4
Air Support Supervisor	[Redacted] ↓ 14 2812	[Redacted]	Fire 4



1. Pigeon Valley	2. 7Feb2019 0700 to 1900
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Public information section	[REDACTED]	(NMIT)		
	[REDACTED]	(NMIT)		
	[REDACTED]	(NMIT)		
	[REDACTED]	(NMIT)		

Released under the Official Information Act

Prepared by [REDACTED]		Date: 7Feb2019	Time: 1500
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1. Pigeon Valley

2. 7Feb2019 0700 to 1900

# Sector Assignment

RF204

<b>3. Sector</b>		<b>4. Description</b>		<b>5. Division Assigned</b>	
<b>6. Sector Supervisor</b>		Affiliation	Cellphone	Radio Ch	
<b>7. Resources Assigned this period</b>					
<i>Resource/Crew</i>	<i>Leader</i>	<i># Persons</i>	<i>Transport Required</i>	<i>Drop-off Point/time</i>	<i>Pickup Point/time</i>
<b>8. Sector Assignment / Special Instructions</b>					
<b>9. Sector Communications</b>				<i>Phone</i>	<i>Radio Ch</i>
Division/Division Cmdr					
Air Attack Supervisor					
Safety Officer					

Prepared by



Date: 7Feb2019

Time: 1500

## Division Assignment

RF204a

3. Pigeon - Alpha		4. Point of ignition to Dove Saddle	
6. Sector Commander [REDACTED]	Affiliation Tasman VRRF	Cellphone [REDACTED]	Radio Ch Fire 1
6. Resources Assigned this Period			
<i>Sector</i>	<i>Supervisor</i>	<i>Crews</i>	<i>Radio Ch</i>
1 Taylors D8 jd850	1x HEQB		
1 Taylors Excavator	1xHEQB		
Tasman VRRF 6px			
1 Smoke chaser + 2px Hira			
1 Appliance + 5px Hira			
1 rural tanker 5075			
7. Division Assignment/Special Instructions			
Protect Life and Property			
Keep Residents and Stakeholders informed in preparation for potential north easterly wind change			
Dozer to establish hard containment lines for property/infrastructure protection			
Excavator to Establish high volume water supplies Wai-iti river Baigents Rd first and end of Hault Valley Rd second			
Provide Situation Report to Situations Unit at least every two hours			
*Laydown Retardant to protect properties			
8. Division Communications		<i>Phone</i>	<i>Radio Ch</i>
Operations Manager			
Air Division Commander			

1. Pigeon Valley	2. 7Feb2019 0700 to 1900
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# Division Assignment

RF204a

3. Haytons – Zulu		4. Point of ignition to Teapot Valley Rd end	
6. Sector Commander	Affiliation	Cellphone	Radio Ch
[REDACTED]	DoC Motueka	[REDACTED]	Fire 2
6. Resources Assigned this Period			
<i>Sector</i>	<i>Supervisor</i>	<i>Crews</i>	<i>Radio Ch</i>
TLC Bulldozer D7 + additional dozer	[REDACTED]		
TLC x2 Excavator			
Appleby VRFF 4px Nelson Lakes VRFF 4px			
1x smoke chaser		Lake Rotoiti	
1x appliance		Lake Rotoiti	
2x rural tanker			
7. Division Assignment/Special Instructions			
Protect life and Property			
Keep Residents and Stakeholders informed in preparation for potential north easterly wind change			
1x Excavator establish High Volume Water Points Wai-iti River end of Bird Lane			
1x Bulldozer for Property/Infrastructure Protection and Establish hard containment line along Haytons Rd			
Ground crew begin 5m blackout of flank			
Provide Situation Report to Situations Unit at least every two hours			
*Laydown Retardant to protect properties			
100C Lakes Crew			
8. Division Communications		<i>Phone</i>	<i>Radio Ch</i>
Operations Manager			
Air Division Commander			

Prepared by [REDACTED]	Date: 7Feb2019	Time: 1500
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1. Pigeon Valley	2. 7Feb2019 0700 to 1900
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## Division Assignment

RF204a

3. Teapot - Yankie		4. Eves Valley Rd to Golden Hills Rd	
6. Sector Commander	Affiliation	Cellphone	Radio Ch
[REDACTED]	Wakefield VFB/NML	[REDACTED]	Fire 3
6. Resources Assigned this Period			
<i>Sector</i>	<i>Supervisor</i>	<i>Crews</i>	<i>Radio Ch</i>
1 Taylors Bulldozer D8	[REDACTED]		
2x Taylors Excavator	[REDACTED]		
Wakefield 02 VFB 4px Upper Moutere 321, 3211 Ngatimoti VRRF			
4x Urban crew		Upper Moutere	
2x rural tankers	[REDACTED]	[REDACTED]	No PPE
2x Tankers 10000L Concrete & Metals	[REDACTED] (Downer)	[REDACTED]	No PPE
7. Division Assignment/Special Instructions			
Protect life and Property			
Keep Residents and Stakeholders informed in preparation for potential north easterly wind change			
Establish High Volume Water supply end of Bells rd Wai iti River with Excavator			
1x Bulldozer for Property/Infrastructure Protection first, Establish hard containment line on Eastern Flank/Eder Rd?			
Urban crew for Protection of Eves Valley Mill or other properties as required			
Provide Situation Report to Situations Unit at least every two hours			
*Laydown Retardant to protect properties			
8. Division Communications		<i>Phone</i>	<i>Radio Ch</i>
Operations Manager			
Air Division Commander			

Prepared by [REDACTED]	Date: 7Feb2019	Time: 1500
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1. Pigeon Valley	2. 7Feb2019 0700 to 1900
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## Division Assignment

RF204a

3. Redwood - Xray		4. Golden Hills Rd to Cut Hill Rd	
6. Sector Commander [REDACTED]		Affiliation FENZ	Cellphone  Radio Ch Fire 1
6. Resources Assigned this Period			
<i>Sector</i>	<i>Supervisor</i>	<i>Crews</i>	<i>Radio Ch</i>
1 Dozer Burson D65 Komatsu?	[REDACTED]		
1 TLC Excavator	[REDACTED]		
AFM 2px	[REDACTED]		
Wainui VRFF 2px - Smoke Chaser	[REDACTED]		
3 Military Crews			
7. Division Assignment/Special Instructions Protect Life and Property Keep Residents and Stakeholders informed in preparation for potential north easterly wind change Excavator to identify and establish access for high volume water supply in existing ponds 1x Bulldozer for Property/Infrastructure Protection assisted by ground crew Contain fire South of Moutere Highway and West Golden Hills Rd Urban crew for protection of Eves Valley Hazardous Landfill Provide Situation Report to Situations Unit at least every two hours Build containment lines where practical in light fuel areas. *Laydown Retardant to protect properties and provide containment			
8. Division Communications		<i>Phone</i>	<i>Radio Ch</i>
Operations Manager			
Air Division Commander			

Prepared by [REDACTED]	Date: 7Feb2019	Time: 1500
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# Division Assignment

RF204a

3. Moutere – Bravo		4. Cut Hill Rd to Dove Hill Saddle	
6. Sector Commander	Affiliation	Cellphone	Radio Ch
	Bruce Forestry		Fire 2
6. Resources Assigned this Period			
<i>Sector</i>	<i>Supervisor</i>	<i>Crews</i>	<i>Radio Ch</i>
Taylors Hitachi 20T Excavator (on site)		Taylors	TPFL Ops 2
1 TLC Excavator ?			
1 Taylors Dozer			
1x 3px crew VRRF - Brightwater 2x 4px mid Canterbury?			
West Coast 4px?			
Brightwater 5071 Appliance 5px			
7. Division Assignment/Special Instructions			
Protect Life and Property			
Keep Residents and Stakeholders informed in preparation for potential north easterly wind change			
Excavator to Identify and Establish high volume water access to existing ponds			
1x Bulldozer for Property/Infrastructure Protection, sunrise valley, establish escape routes			
Taylors Excavator to establish escape route/access down Supplejack Valley rd and Sunrise/Heines rd			
Develop Containment lines from Cut Hill to Eder Road where safe to do so. Consider and plan for additional containment lines through Dovedale saddle.			
Provide Situation Report to Situations Unit at least every two hours			
*Laydown Retardant to protect properties			
8. Division Communications		<i>Phone</i>	<i>Radio Ch</i>
Operations Manager			
Air Division Commander			

Prepared by

Date:7Feb2019

Time: 1500

# Air Operations Plan

RF208

3. Personnel and Communications				
Position	Name	Affiliation	Phone	Radio Chan
Air Div Commander				
Air Attack Supervisor				
Air Support Supervisor				
Lead Helicopter Pilot				
Lead Fixed-Wing Pilot				

4. Air Resource Assignments							
Company	Type of Heli	Call Sign	Capacity	Pilot Name	Contact Details		
Garden City Helicopters	B4 Squirrel	IWN	1000L				
Marlborough Helicopters	Long Range	HTA	600L				
Independent Helicopters	Squirrel	IMS <span style="color: red;">IWS</span>	1000L				
Amuri Helicopter	Squirrel	HJM	1000L				
Anderson Helicopters	B2 Squirrel	HKA	1000L				
Christchurch Helicopters	B2 Squirrel	HND	1000L				
<span style="color: red;">Wanaka</span> Christchurch Helicopters	B2 Squirrel	HFF	1000L				
Mount Hutt Helicopters	Squirrel	HMQ	1000L				
Heli Ventures	Squirrel	IER	1000L				
Beck Helicopters	BellUH1B		1500L				
Beck Helicopters	BellUH1E		1500L				
<b>Fixed Wing</b>							
1 TBC 1200hrs	Cresco	<span style="color: red;">OAS</span>					
2 TBC 1200hrs	<span style="color: red;">Airtractor</span>	<span style="color: red;">SKE</span>					
3 TBC 1200hrs							

5. Location of Filling Points/Service Areas		
Name	Grid Reference	Notes
Sharp Rd (Divison Pigeon)	41 22 03.7 S 173 00 55.6 E	<span style="color: red;">Flight Summaries</span>
Fixed Wings: <span style="background-color: black; color: black;">[REDACTED]</span> airstrip via Teapot Valley	41 22 39.9 S 173 05 04.6 E	<span style="color: red;">Southern Helilift HUE Garden City IHL Garden City IGF Garden City IVB Helicharter Nelson HXX Reid Helicopters HPE HEX IOR HJI</span>
6. Safety Notes / Hazards / Radio Coverage Limitations		
		<span style="color: red;">Skyworks HZZ</span>
7. Air Operations Special Equip or Service		
		<span style="color: red;">Marlborough Heli</span>



# Communications Plan

RF205

<b>3. Radio Channels</b>				
<i>Assigned To</i>	<i>Function</i>	<i>Channel</i>	<i>Frequency</i>	<i>System</i>
Command		Waimea 1	152.55000 RX 154.33125 TX	
Division Pigeon (Alpha)	Operational	Fire 1	143.82500	
Division Hayton (Zulu)	Operational	Fire 2	143.78750	
Division Teapot (Yankie)	Operational	Fire 3	140.92500	
Division Redwood (Xray)	Operational	Fire 1	143.82500	
Division Moutere (Bravo)	Operational	Fire 2	143.78750	
Air Ops -Heli	Operational	Fire 4	140.61250	
Air Ops – Fixed Wing	Operational	Fire 10	140.98750	
Emergency		Waimea 1	152.55000 RX 154.33125 TX	
FireCom		FireCom		
<b>4. Telephone</b>				
<i>Assigned To</i>	<i>Landline</i>	<i>Cell phone</i>	<i>Fax</i>	<i>Comments</i>
Emergency		111		
Regional Command Centre (RCC)				
<b>6. Other (e.g. email, Satphone, etc)</b>				
GIS Mapping	planning.intelligence@nelsontasmancdem.govt.nz			
ICP	Reception.nelsontasman@fireemergency.nz			
Command Unit	<a href="mailto:lcu.nelson@fireemergency.nz">lcu.nelson@fireemergency.nz</a>			

# Safety Plan

RF209

## 3. General Safety Points

Everyone is to be signed in and out of the fire ground through the Incident Control Point for both safety check and payment records.

Maintain regular situation reports (containing all relevant information) via line supervisors.

LACES	Fire Orders	Watchouts
<b>L - Lookout(s)</b> <b>A – Awareness</b> – Anchor Point(s) <b>C – Communication(s)</b> <b>E – Escape Route(s)</b> <b>S – Safety Zone(s)</b>	<ol style="list-style-type: none"> <li>conditions and forecasts</li> <li>Know what your fire is doing at all times.</li> <li>Base all actions on current and expected fire behaviour of the fire.</li> <li>Identify escape routes and safety zones and make them known.</li> <li>Post lookouts when there is possible danger.</li> <li>Stay alert. Keep calm, Think clearly, act decisively.</li> <li>Maintain prompt communication with your crew/s, your supervisor and adjoining crews.</li> <li>Give clear instructions and ensure they are understood.</li> <li>Maintain control of your crew/s at all times.</li> <li>Fight fire aggressively having provided for safety first.</li> </ol>	<ol style="list-style-type: none"> <li>Fire size is unknown (no size up).</li> <li>Unfamiliar territory</li> <li>Safety zones and escape routes not identified.</li> <li>Unfamiliar with weather and local factors influencing fire behaviour.</li> <li>No communications link with crew members or supervisor.</li> <li>Instructions and assignments not clear.</li> <li>Weather is getting hotter , drier and relative humidity dropping</li> <li>Wind increases and/or changes direction.</li> <li>Getting frequent spot fires across the line</li> <li>Working uphill or downwind of a fire</li> <li>Working on a steep slope</li> <li>Working in rugged terrain</li> <li>Can't see main fire</li> <li>In unburnt vegetation</li> <li>Walking through hot ashes</li> <li>Working alone</li> <li>Getting tired</li> <li>Working near power lines</li> <li>Working near machinery</li> <li>Working with aircraft</li> <li>Working around trees or spars</li> </ol>

## 4. Specific Safety Points

- Access points into fire controlled. Only those authorized to enter and they must receive a brief and be logged in. Time and access point
- Public access Managed
- Weather fire behaviour monitored for changes and communicated to crews. Risk identified to crews
- All crews to have adequate food, water, PPE to manage fatigue and hydration
- Crews to have identified emergency escape routes and emergency plan in the event of harm. Meeting point identified once evacuated.
- All workers to ensure they are competent for the tasks and risks given.
- Air and ground crews to be isolated from risk areas during operations.
- Potential methane flares (Division Hayton) from Eves Valley Landfill

# Medical Plan

RF206

3. First Aid Station		Phone/Radio	Paramedics			
Name	Location	Channel	available at Station			
Each Crew must have available one First aid Level 1 Certified	Each crew					
Nelson 91 Ambulance	Forward command post	Waimea 1	1 Paramedic and 1 EMT			
4. Transportation		Phone/Radio	Paramedics			
Ambulance Service	Address	Channel	available with Ambulance			
Ambulance St Johns	Richmond station	111	Yes			
	Motueka/Stoke Nelson/					
5. Hospitals		Phone	Travel Time		Burn	Heli
Hospital Name	Address		Road	Air	Unit	Pad
Nelson Public Emergency	Waimea Rd.	035461800	27m	4min	y	y
Hutt Hospital (Burn Unit)		045666999	n/a	40min	Y	y
6. Special Emergency Procedures						
Emergency Helicopter stationed at Nelson Airport "111"						
8. Reviewed by Safety Advisor:						Date/Time

FIRE WEATHER FORECAST

Attention Tasman Fire CD

FIRE WEATHER FORECAST

For Location [redacted] Pigeon Valley near Wakefield

Issued by MetService at 08:55am 06-Feb-2019, and valid for the following 9 hours

Wind: East to northeast 15-20km/h gusting 25-30km/h rising to east to southeast 25km/h gusting 40km/h this afternoon.

Precipitation: Remaining drizzle clearing this morning - Less than 1mm.

Temperature: Rising to 20-21C this afternoon.

Humidity: 65% lowering to 40-50% this afternoon.

Outlook for the next 12 hours :

Mailny fine, some cloud about. Temperatures lowering to 10-12C.

Humidity increasing to 70-80%. Southeast easing to 10-15km/h.

Outlook for next 6 days:

Thursday: Light winds, sunny, dry and max temperature around 21C.

Friday: Light winds, sunny, dry and max temperature around 20C.

Saturday: Light winds, sunny, dry and max temperature around 22C.

Sunday: Northerlies, partly cloudy, a few light showers and max temperature about 22C.

Monday: Northerlies and rain, max temperature arond 21C.

Tuesday: Light winds, sunny and max temperature around 23C.

Fire Indices for Wednesday 6<sup>th</sup> Feb 2019 (8:00am)

FFMC 83 (easy Ignition)

DMC 95.8

DC 451.1

ISI 2.9 (moderately fast rate)

BUI 125.1 (Extreme)

FWI 14.5 (high fire intensity)

Released under the Official Information Act

### FIRE BEHAVIOUR FORECAST

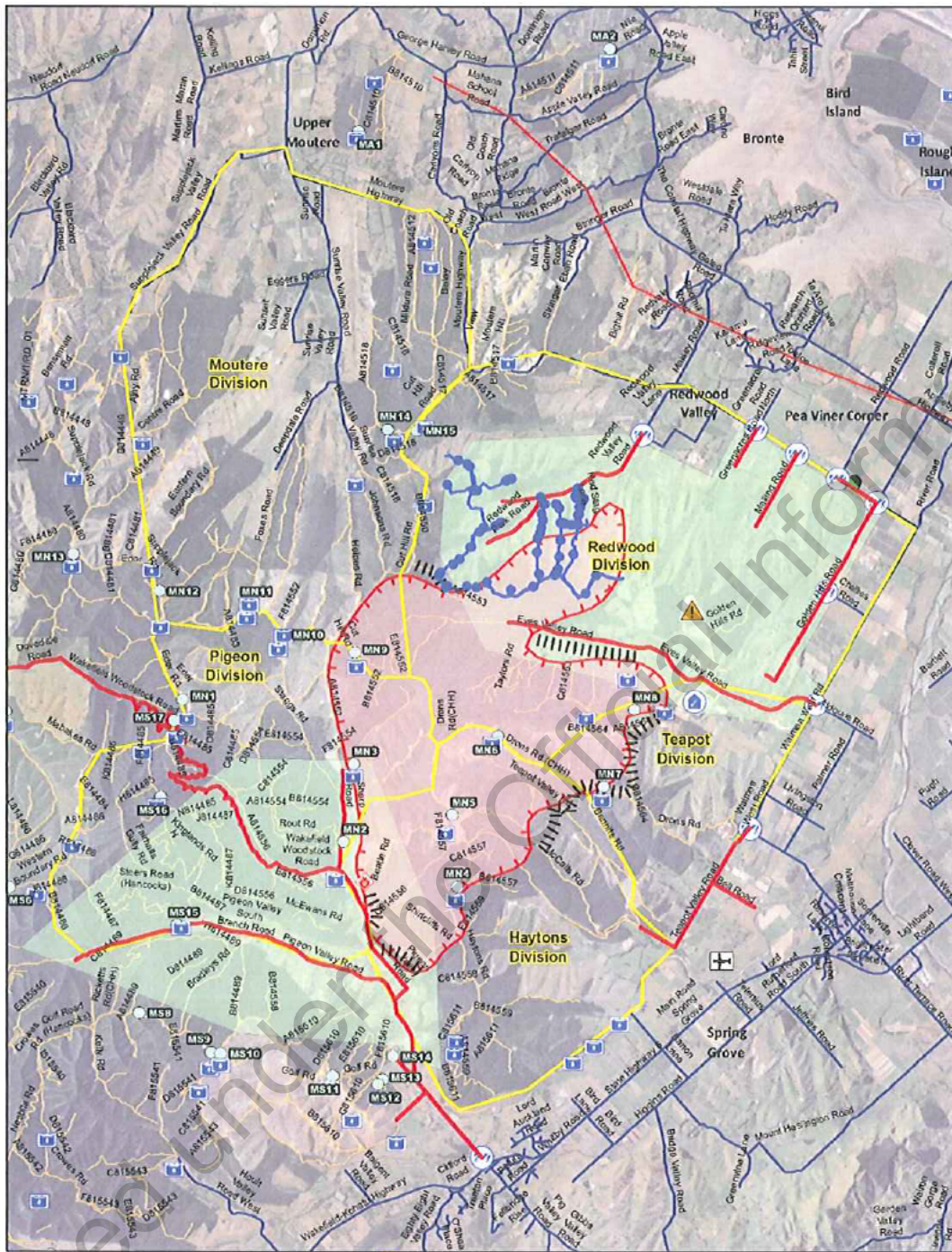
Fire name: Pigeon Road				Prediction for: 0800-1800 07 Feb-19					
Prepared by [REDACTED]				Time and date issued: 1500 06 Feb 19					
Forecast no. 1				Day Shift					
<i>Assumptions:</i>				<i>today's forecast</i>					
Temp	RH	Wind	Slope *	FFMC	DMC	DC	ISI	BUI	FWI
17.1	59.4	10.7	0	86	98.3	463.3	4.2	128.1	19.1

Rates of spread are the equilibrium rate of spread, not the build-up phase, with continuous fuel and similar fuel type.

**Fire Behaviour General:**

<b>Expected fire behaviour – slope 0°</b>	<b>Forecast</b> worst case – 28°C 45%RH slope 20° 1400-1800
<i>Fuel type: Mature Pine – 5m pruned</i>	<i>Fuel type: Mature Pine – 5m pruned</i>
Expect HF rate of spread of 40 m/hr HF Intensity                      633 kw/m Flame lengths                      1.5	Expect HF rate of spread of 200 m/hr HF Intensity                      2100 kw/m Flame lengths                      3 m
<i>Fuel type: Scrub/gorse 2m height</i>	<i>Fuel type: Scrub/ gorse 2m height</i>
Expect HF rate of spread of 926 m/hr HF Intensity                      >10000 kw/m Flame lengths                      6.7 m	Expect HF rate of spread of 3000 m/hr HF Intensity                      >10000 kw/m Flame lengths                      13 m
<i>Fuel type: Grass-70% GC, 100% cover, 0.1m height</i>	<i>Fuel type: Ungrazed Grass -70% GC, 100% cover, 0.2m height</i>
Expect HF rate of spread of 187 m/hr HF Intensity                      296 kw/m Flame lengths                      1.1 m	Expect HF rate of spread of 600 m/hr HF Intensity                      1050 kW/m Flame lengths                      2 m
<b>Safety Considerations:</b>	
Head Fire intensity, and flank fire intensity exceed threshold for direct attack in gorse/ scrub fuels.	Head Fire intensity exceed threshold for direct attack in gorse and mature pine fuels, and flank fires in gorse. Flank fires intensity is now too high for ground crews
. Weather conditions for Thursday are predicted to be similar to Wednesday. The NE conditions should continue to provide higher relative humidities and enable a focus on containment activity. Watch for a fall in RH as the afternoon develops and be prepared to adjust your attack strategy.	

Released under the Official Information Act



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Date saved: 6/02/2019, 1514 hrs  
Prepared by: petei

Coordinate System: NZGD 2000 New Zealand Transverse Mercator  
Projection: Transverse Mercator  
Datum: NZGD 2000  
Units: Meter  
Sourced from Land Information New Zealand data  
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Scale at A3: 152,511 0 0.2505 1 km

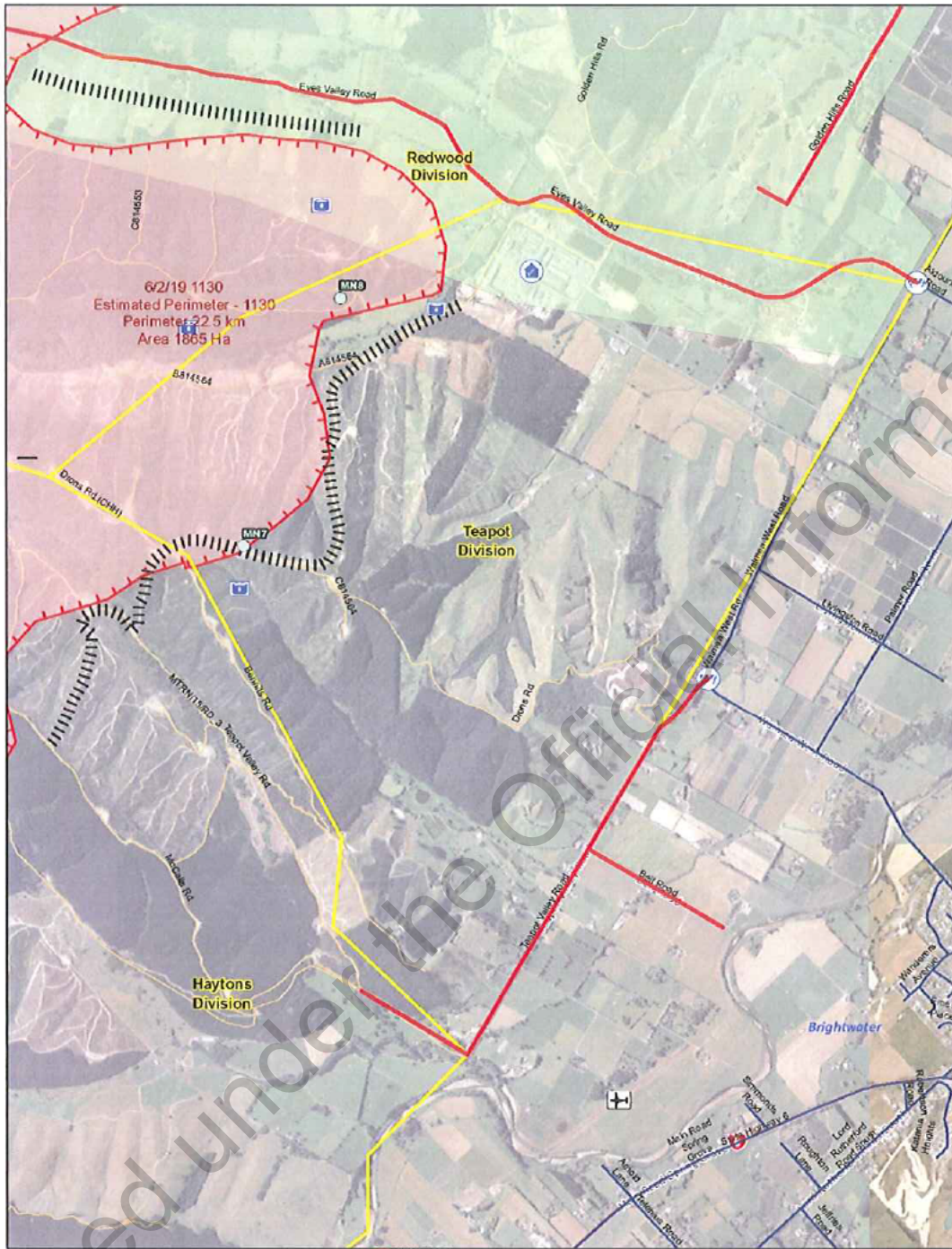


- Eves Valley Sawmill
- Fire Origin
- Forward Control Point
- Road Block
- Fire Sectors
- Pigeon Valley Fire Extent
- Pigeon Valley Fire Extent
- EM\_Eves Area



Pigeon Valley Fire Overview





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Prepared by: petei

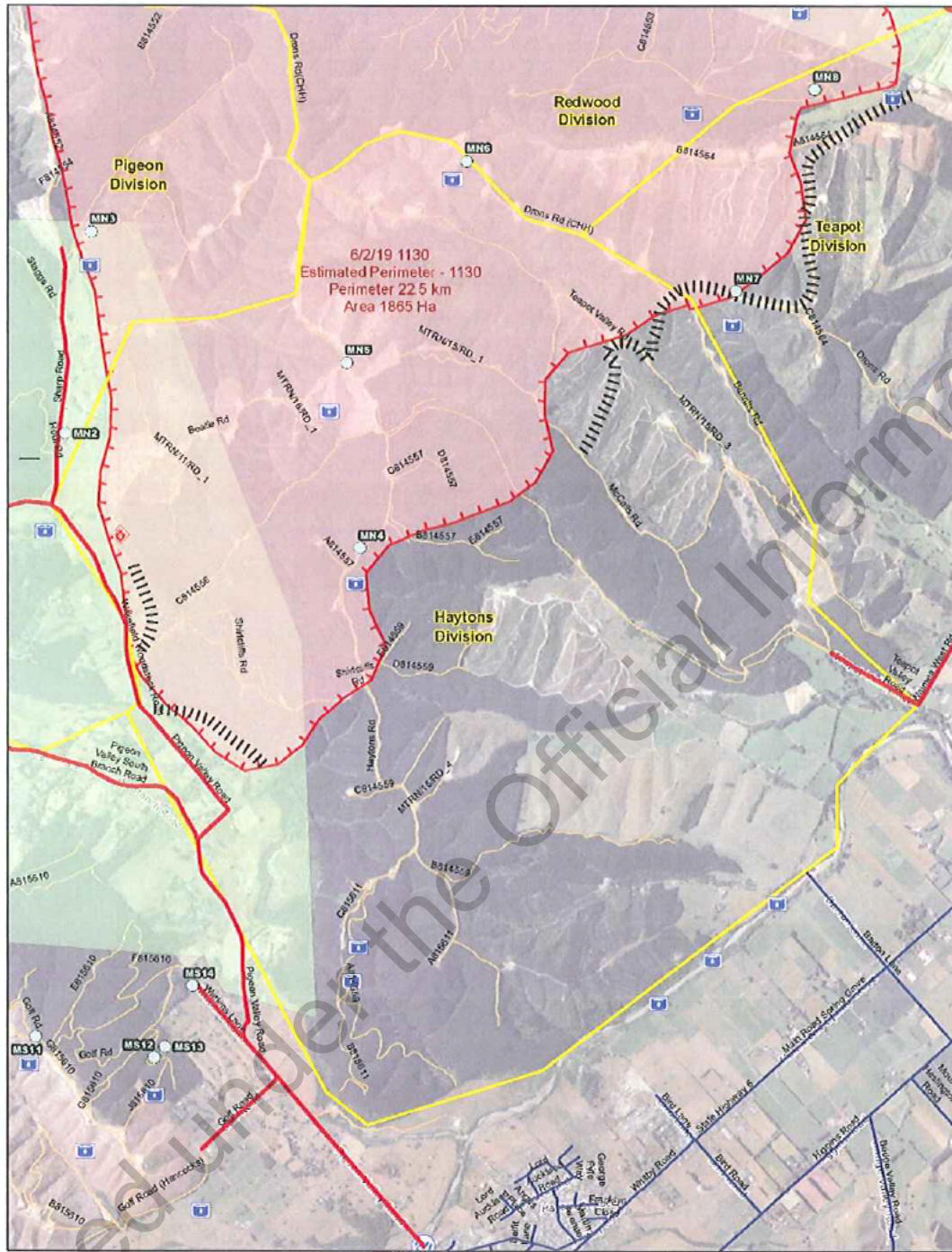
Coordinate System: NZGD 2000 New Zealand Transverse Mercator  
Projection: Transverse Mercator  
Datum: NZGD 2000  
Units: Meter  
Scale at A3: 1:16,492



- Cuts/roads
- Planned Dozer Break
- Astrip
- Eyes Valley Sawmill
- Road Block
- Fire Sectors
- Pigeon Valley Fire Extent
- EM\_EventArea



Pigeon Valley Fire Overview



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Prepared by: petel

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Projection: Transverse Mercator  
Datum: NZGD 2000  
Units: Meter  
Sourced from: Land Information New Zealand data  
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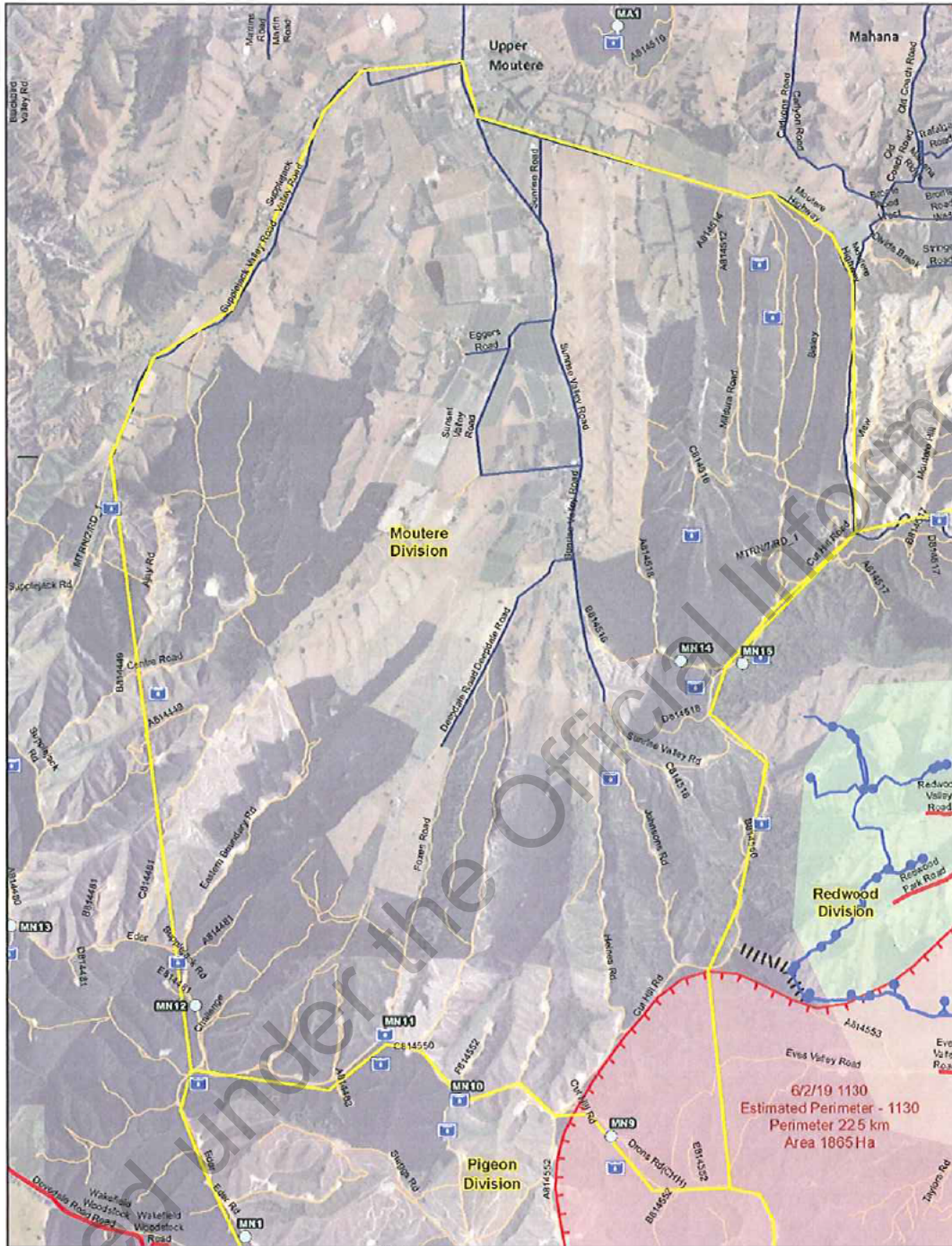
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- Description**
- Planned Dozer Break
  - Eves Valley Sawmill
  - Fire Origin
  - Road Block
  - Fire Sectors
  - Pigeon Valley Fire Extent
  - EM\_EvenArea



Pigeon Valley Fire Overview



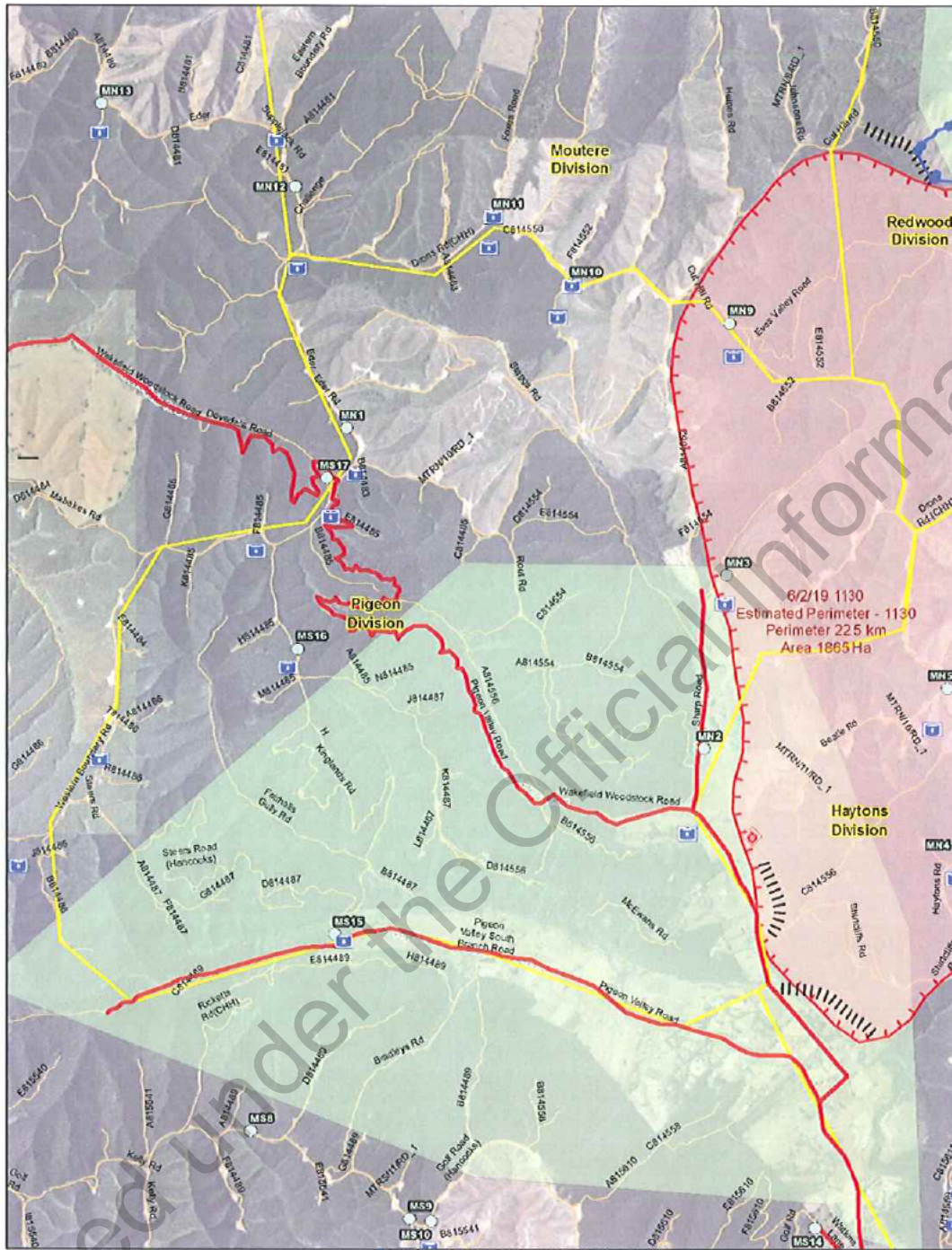
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Date saved: 6/02/2019, 1514 hrs  
Prepared by: petei

Coordinate System: NZGD 2000 New Zealand Transverse Mercator  
Projection: Transverse Mercator  
Datum: NZGD 2000  
Units: Meter  
Sourced from Land Information New Zealand data  
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Scale at A3: 1:24,625

- Water/Surface Features\_RedwoodValleyPropertiesWithoutA
- Waterpoints
- Water Locations\* - Tasman Fire Data
- Water/Fires\_RedwoodValleyPropertiesWithoutWater
- Closed Roads
- Description
- Planned Dozer Break
- Power Line
- Fire Sectors
- Pigeon Valley Fire Extent
- Pigeon Valley Fire Extent
- EM\_EverWres



Pigeon Valley Fire Overview



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Datum: NZGD 2000  
Units: Meter  
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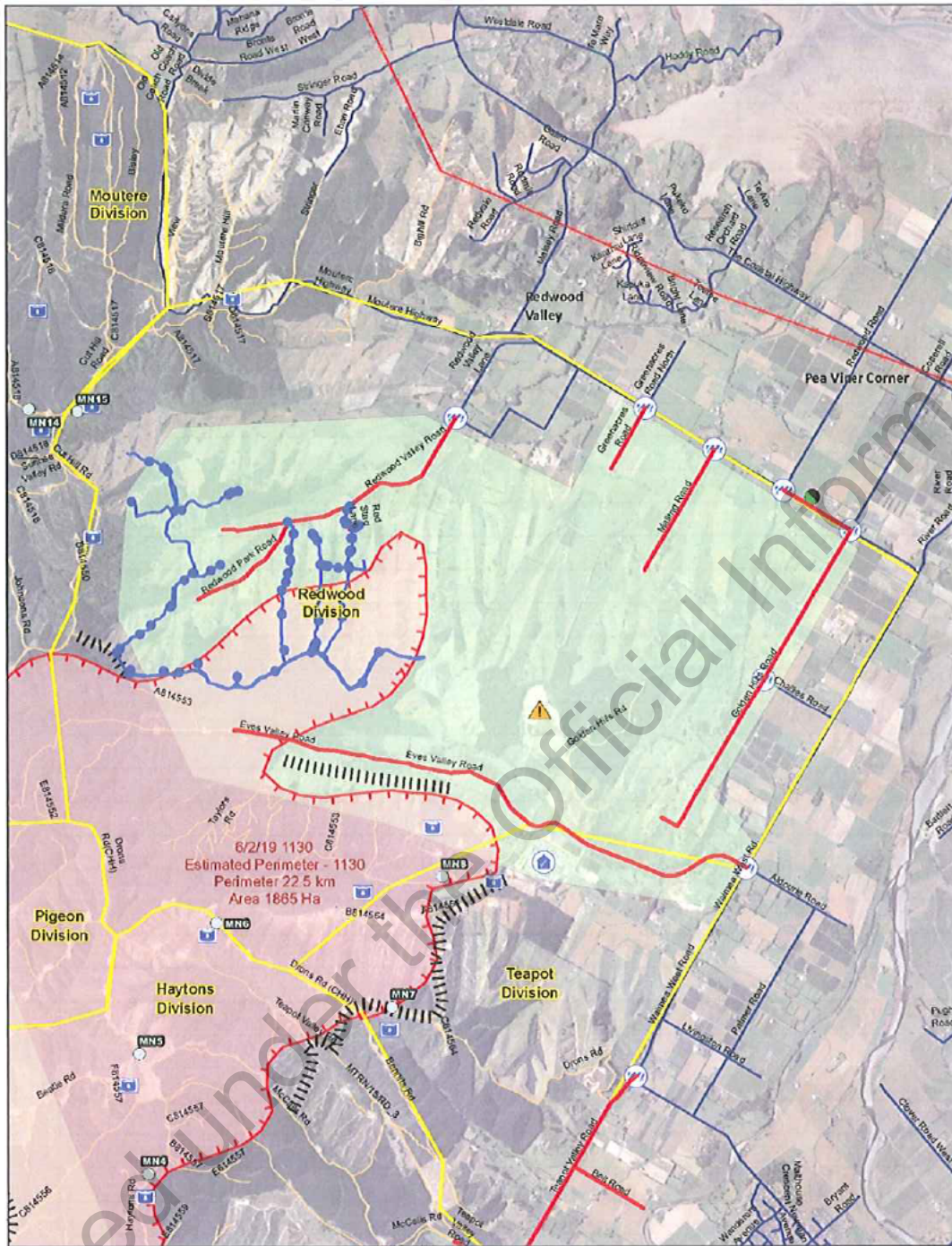
Scale at A3: 1:23,459



- Water points
- Water Locations - Tasman Fire Data
- Water Pipes - Redwood Valley Properties without Water
- Closed Roads
- Description**
- Planned Dozer Break
- Fire Origin
- Fire Sectors
- Pigeon Valley Fire Extent
- Pigeon Valley Fire Extent
- EM\_Ever Area



Pigeon Valley Fire Overview



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Prepared by: petel

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Projection: Transverse Mercator  
Datum: NZGD 2000  
Units: Meter  
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Scale at A3: 1:31,356



- Eves Valley Landfill
- Eves Valley Stn Mill
- Forward Control Point
- Road Block
- Fire Sections
- Pigeon Valley Fire Extent
- Pigeon Valley Fire Extent
- EM Ever Area



Pigeon Valley Fire Overview



# IAP Cover Sheet

## INCIDENT ACTION PLAN

The items checked below are included in the incident Action Plan

- SITUATION REPORT
- INCIDENT OBJECTIVES
- ORGANISATIONAL LIST
- SECTOR ASSIGNMENT
- DIVISIONAL ASSIGNMENT
- AIR OPERATIONS PLAN
- COMMUNICATION PLAN
- SAFETY PLAN
- MEDICAL PLAN
- FIRE MAP
- WEATHER FORECAST AND MAP
- FIRE BEHAVIOUR FORECAST
- FACILITIES LAYOUT PLAN

Approved by Incident Controller:

Signed

Date/Time



1. Pigeon Valley	2. 6 Feb2019 0700 to 1900
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# Situation Report

RF201

<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 6 <sup>th</sup> Feb 20 Time 16:30	<b>SITUATION REPORT</b> RF201
<b>3. Location</b> Pigeon Rd, Eves Valley ,Tasman	<b>4. Vegetation</b> Forest/Scrub/Grass/Slash/	
<b>6. Assessment</b>  A large scrub/ forest fire is currently burning estimated to be 1900ha at 12:30 hrs with a perimeter of 22km.  Values at risk are life and property, assets.  Confirmed minor property damaged. Unconfirmed reports of potential property losses in Eves Valley and Redwood Valley.  The Eves Valley sawmill is at risk and fire crews are carrying out structural protection on structures. Telecommunications site on the end of Cooks Rd (near Wakefield) is at risk with northerly wind.  Evacuations have occurred in the <ul style="list-style-type: none"> <li>• Eves Valley,</li> <li>• Golden Hills Rd,</li> <li>• Redwood Valley Rd</li> <li>• Mallings Rd</li> <li>• Greenacres Rd</li> </ul> We have confirmed records of 170 households evacuated. Evacuation of North and South Pigeon Valley, Teapot Valley, Eves Valley, Redwood Park, Malling Rd and Golden Hills Rd.  Notice of potential evacuations in place for Sunrise Valley (top end), Deepdale Rd (Upper Moutere).  Crews are working on most areas on the ground safely and are progressing fire containment due to more favourable weather conditions.		

Prepared by: [REDACTED]	Date:6 Feb2019	Time: 1500
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1. Pigeon Valley	2. 6 Feb2019 0700 to 1900
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**7. Action taken**

14 Helicopters managed fire as requested throughout the day

Firebreaks being located to manage NNE wind change.

More predictable fire behaviour has made the fire ground more accessible for ground crews in particularly on the Northern front. These crews are being tasked with structure protection and controlling the fire when it has spotted onto grassland. Black out work has commenced in this area.

**8. Factors**

On Tuesday strong winds fanned the forest fire and the fire itself was creating its own extreme fire behaviour. Fire behaviour at night was still very active with highly flammable grass and scrubland carrying the fire. Wednesday morning brought a change in wind direction pushing the fire back into the burnt stand areas and changing fire fronts along with more benign fire behaviour from lower temperatures and higher RH.

Light winds and higher relative humidity have prevailed through the day enabling crews to move into direct attack.

**9. Predicted Incident Development**

The prevailing weather is supporting fire fighter activities with an increased in containment of existing fire lines. This will continue based on the forecast until unfavourable weather conditions occur. Significant reduction in the rate of spread due to current weather.

<b>10. Prepared by:</b> [REDACTED] <b>Authorised by</b> [REDACTED] (Incident controller)	<b>Date/Time</b> 16:30 6 <sup>th</sup> Feb 2019
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# Incident Objectives<sup>RF202</sup>

### 3. Overall Incident Objectives

- Protect life (Public and Residents, firefighters)
- Protect Property
- Identify and keep stakeholders informed
- Ensure Firefighter Safety
- Identify and protect Critical Infrastructure
- Transition to NIMT using shadow process by 1500hrs
- Protect Other Assets (Forests, crop etc)
- Prepare for significant wind/weather change
- Containment lines constructed
  - All divisions maintain existing containment lines
  - Maintain patrols within divisional areas
  - Any flares ups as they occur.
- Contain then Extinguish fire

### 4. Objectives for specified Operational Period

- Protect life (Public and Residents)
- Identify and keep stakeholders informed
- Allow for Firefighter Safety
- Sectorise each divisional area
- Identify and protect Critical Infrastructure
- Protect property and critical infrastructure by establishing hard containment lines with heavy equipment or Identify opportunities for laying down retardant ahead of wind change to protect property/infrastructure
- Establish trigger points with 3hrs lead-time for evacuations

# Organisation List

RF203

3. Incident Control		Cell Phone	Radio Ch
Incident Controller	██████████ (Day)	██████████	
Deputy IC	██████████ (Night)		
Information Officer			
Safety Officer			
Liaison Officer			
4. Agency Representative		Cell Phone	Radio Ch
Lead Agency	CDEM	██████████	
Agency	Police ██████████ ██████████		
Agency	CDEM ██████████ CDEM Duty Phone		
Agency	FENZ Urban Liason ██████████ ██████████		
5. Planning/Intell Section		Cell Phone	Radio Ch
Planning/Intell Manager	██████████	██████████	
Situations Unit			
Resources Unit	██████████		
Management Support Unit			
Information Unit			
Advance Planning Unit			
Technical Specialists Unit	██████████		
6. Logistics Section		Cell Phone	Radio Ch
Logistics Manager	██████████		
Supply Unit			
Catering Unit			
Facilities Unit			
Finance Unit			

Communications Unit			
Welfare Unit	██████████ ██████████	██████████	
Medical Unit			
Ground Support Unit			

<b>7. Operations Section</b>	<b>Cell Phone</b>	<b>Radio Ch</b>
Operations Manager	██████████	
Deputy Operations Manager		
Division Pigeon Commander	██████████	
Division Hayton Commander		
Division Teapot Commander		
Division Redwood Commander		
Division Moutere Commander		
Division Two Commander		
Sector E Supervisor		
Sector F Supervisor		
Sector G Supervisor		
Sector H Supervisor		
Air Division Commander		
Air Attack Supervisor		
Air Support Supervisor		

1. Pigeon Valley	2. 6 Feb2019 0700 to 1900
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# Sector Assignment

RF204

<b>3. Sector</b>	<b>4. Description</b>		<b>5. Division Assigned</b>
<b>6. Sector Supervisor</b>	Affiliation	Cellphone	Radio Ch
<b>7. Resources Assigned this period</b>			
<i>Resource/Crew</i>	<i>Leader</i>	<i># Persons</i>	<i>Transport Required</i>
			<i>Drop-off Point/time</i>
			<i>Pickup Point/time</i>
<b>8. Sector Assignment / Special Instructions</b>			
<b>9. Sector Communications</b>			<i>Phone</i>
Division/Division Cmdr			<i>Radio Ch</i>
Air Attack Supervisor			
Safety Officer			

Prepared by: ██████████	Date:6 Feb2019	Time: 1500
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1. Pigeon Valley	2. 6 Feb2019 0700 to 1900
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# Division Assignment

RF204a

<b>3. Pigeon</b>		<b>4. Point of ignition to Dove Saddle</b>		
<b>6. Sector Commander</b>	Affiliation	Cellphone	Radio Ch	
<b>6. Resources Assigned this Period</b>				
<i>Sector</i>	<i>Supervisor</i>	<i>Crews</i>	<i>Radio Ch</i>	
1 Ground Crew				
1 Smoke chaser				
1 Appliance				
<b>7. Division Assignment/Special Instructions</b> <b>Protect Life and Property</b> <b>Keep Residents and Stakeholders informed in preparation for potential north easterly wind change</b> <b>Provide Situation Report to Situations Unit at least every two hours</b> <b>*Laydown Retardant to protect properties</b>				
<b>8. Division Communications</b>		<i>Phone</i>	<i>Radio Ch</i>	
Operations Manager _____				
Air Division Commander _____				

Prepared by: ██████████	Date: 6 Feb2019	Time: 1500
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1. Pigeon Valley	2. 6 Feb2019 0700 to 1900
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# Division Assignment

RF204a

<b>3. Haytons</b>		<b>4. Point of ignition to Teapot Valley Rd end</b>	
<b>6. Sector Commander</b>	Affiliation	Cellphone	Radio Ch
<b>6. Resources Assigned this Period</b>			
<i>Sector</i>	<i>Supervisor</i>	<i>Crews</i>	<i>Radio Ch</i>
1 Ground Crew			
1 Smoke chaser			
1 Appliance			
<b>7. Division Assignment/Special Instructions</b> <b>Protect life and Property</b> <b>Keep Residents and Stakeholders informed in preparation for potential north easterly wind change</b> <b>Provide Situation Report to Situations Unit at least every two hours</b> <b>*Laydown Retardant to protect properties</b>  <b>100C Lakes Crew</b>			
<b>8. Division Communications</b>		<i>Phone</i>	<i>Radio Ch</i>
Operations Manager _____			
Air Division Commander _____			

Prepared by: ██████████	Date: 6 Feb2019	Time: 1500
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1. Pigeon Valley	2. 6 Feb2019 0700 to 1900
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# Division Assignment

RF204a

<b>3. Teapot</b>		<b>4. Eves Valley Rd to Golden Hills Rd</b>		
<b>6. Sector Commander</b>	Affiliation	Cellphone	Radio Ch	
<b>6. Resources Assigned this Period</b>				
<i>Sector</i>	<i>Supervisor</i>	<i>Crews</i>	<i>Radio Ch</i>	
1 Ground Crew				
1 Smoke chaser				
1 Appliance				
<b>7. Division Assignment/Special Instructions</b>				
Protect life and Property				
Keep Residents and Stakeholders informed in preparation for potential north easterly wind change				
Urban crew for Protection of Eves Valley Mill or other properties as required				
Provide Situation Report to Situations Unit at least every two hours				
*Laydown Retardant to protect properties				
<b>8. Division Communications</b>				
Operations Manager		<i>Phone</i>	<i>Radio Ch</i>	
Air Division Commander				

Prepared by: ██████████	Date: 6 Feb2019	Time: 1500
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1. Pigeon Valley	2. 6 Feb2019 0700 to 1900
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# Division Assignment

RF204a

<b>3. Redwood</b>		<b>4. Golden Hills Rd to Cut Hill Rd</b>		
<b>6. Sector Commander</b>	Affiliation	Cellphone	Radio Ch	
<b>6. Resources Assigned this Period</b>				
<i>Sector</i>	<i>Supervisor</i>	<i>Crews</i>	<i>Radio Ch</i>	
2 Ground Crew				
2 Smoke chaser				
1 Appliance				
-				
<b>7. Division Assignment/Special Instructions</b>				
Protect Life and Property				
Keep Residents and Stakeholders informed in preparation for potential north easterly wind change				
Property/Infrastructure Protection by ground crew				
Contain fire South of Moutere Highway and West Golden Hills Rd				
Urban crew for protection of Eves Valley Hazardous Landfill				
Provide Situation Report to Situations Unit at least every two hours				
Build containment lines where practical in light fuel areas.				
*Laydown Retardant to protect properties and provide containment				
<b>8. Division Communications</b>				
Operations Manager	<i>Phone</i>	<i>Radio Ch</i>		
Air Division Commander				

Prepared by: <span style="background-color: black; color: black;">██████████</span>	Date: 6 Feb2019	Time: 1500
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1. Pigeon Valley	2. 6 Feb2019 0700 to 1900
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# Division Assignment

RF204a

<b>3. Moutere</b>		<b>4. Cut Hill Rd to Dove Hill Saddle</b>	
<b>6. Sector Commander</b> ██████████	Affiliation Bruce Forestry	Cellphone ██████████	Radio Ch Fire 2
<b>6. Resources Assigned this Period</b>			
<i>Sector</i>	<i>Supervisor</i>	<i>Crews</i>	<i>Radio Ch</i>
1 Ground Crew			
1 Smoke chaser			
1 Appliance			
<b>7. Division Assignment/Special Instructions</b>			
Protect Life and Property			
Keep Residents and Stakeholders informed in preparation for potential north easterly wind change			
Excavator to Identify and Establish high volume water access to existing ponds			
1x Bulldozer for Property/Infrastructure Protection, sunrise valley, establish escape routes			
Taylors Excavator to establish escape route/access down Supplejack Valley rd and Sunrise/Heines rd			
Develop Containment lines from Cut Hill to Eder Road where safe to do so. Consider and plan for additional containment lines through Dovedale saddle.			
Provide Situation Report to Situations Unit at least every two hours			
*Laydown Retardant to protect properties			
<b>8. Division Communications</b>		<i>Phone</i>	<i>Radio Ch</i>
Operations Manager			
Air Division Commander			

Prepared by: ██████████	Date: 6 Feb2019	Time: 1500
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# Communications Plan

RF205

<b>3. Radio Channels</b>				
<i>Assigned To</i>	<i>Function</i>	<i>Channel</i>	<i>Frequency</i>	<i>System</i>
Command		Waimea 1	152.55000 RX 154.33125 TX	
Division Pigeon	Operational	Fire 1	143.82500	
Division Hayton	Operational	Fire 2	143.78750	
Division Teapot	Operational	Fire 3	140.92500	
Division Redwood	Operational	Fire 1	143.82500	
Division Moutere	Operational	Fire 2	143.78750	
Air Ops -Heli	Operational	Fire 4	140.61250	
Air Ops – Fixed Wing	Operational	Fire 10	140.98750	
Emergency		Waimea 1	152.55000 RX 154.33125 TX	
FireCom		FireCom		
<b>4. Telephone</b>				
<i>Assigned To</i>	<i>Landline</i>	<i>Cell phone</i>	<i>Fax</i>	<i>Comments</i>
Emergency		111		
Regional Command Centre (RCC)				
<b>6. Other (e.g. email, Satphone, etc)</b>				
GIS Mapping	planning.intelligence@nelsontasmancdem.govt.nz			
ICP	Reception.nelsontasman@fireemergency.nz			
Command Unit	<a href="mailto:lcu.nelson@fireemergency.nz">lcu.nelson@fireemergency.nz</a>			

# Safety Plan

RF209

### 3. General Safety Points

Everyone is to be signed in and out of the fire ground through the Incident Control Point for both safety check and payment records.

Maintain regular situation reports (containing all relevant information) via line supervisors.

LACES	Fire Orders	Watchouts
<p><b>L</b> - Lookout(s)</p> <p><b>A</b> – Awareness</p> <p>    – Anchor Point(s)</p> <p><b>C</b> – Communication(s)</p> <p><b>E</b> – Escape Route(s)</p> <p><b>S</b> – Safety Zone(s)</p>	<ol style="list-style-type: none"> <li>1. conditions and forecasts</li> <li>2. Know what your fire is doing at all times.</li> <li>3. Base all actions on current and expected fire behaviour of the fire.</li> <li>4. Identify escape routes and safety zones and make them known.</li> <li>5. <b>Post</b> lookouts when there is possible danger.</li> <li>6. <b>Stay</b> alert. Keep calm, Think clearly, act decisively.</li> <li>7. Maintain prompt communication with your crew/s, your supervisor and adjoining crews.</li> <li>8. Give clear instructions and ensure they are understood.</li> <li>9. Maintain control of your crew/s at all times.</li> <li>10. Fight fire aggressively having provided for safety first.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fire size is unknown (no size up).</li> <li>2. Unfamiliar territory</li> <li>3. Safety zones and escape routes not identified.</li> <li>4. Unfamiliar with weather and local factors influencing fire behaviour.</li> <li>5. No communications link with crew members or supervisor.</li> <li>6. Instructions and assignments not clear.</li> <li>7. Weather is getting hotter , drier and relative humidity dropping</li> <li>8. Wind increases and/or changes direction.</li> <li>9. Getting frequent spot fires across the line</li> <li>10. Working uphill or downwind of a fire</li> <li>11. Working on a steep slope</li> <li>12. Working in rugged terrain</li> <li>13. Can't see main fire</li> <li>14. In unburnt vegetation</li> <li>15. Walking through hot ashes</li> <li>16. Working alone</li> <li>17. Getting tired</li> <li>18. Working near power lines</li> <li>19. Working near machinery</li> <li>20. Working with aircraft</li> <li>21. Working around trees or spars</li> </ol>

### 4. Specific Safety Points

- **Access points into fire controlled. Only those authorized to enter and they must receive a brief and be logged in. Time and access point**
- **Public access Managed**
- **Weather fire behaviour monitored for changes and communicated to crews. Risk identified to crews**
- **All crews to have adequate food, water, PPE to manage fatigue and hydration**
- **Crews to have identified emergency escape routes and emergency plan in the event of harm. Meeting point identified once evacuated.**
- **All workers to ensure they are competent for the tasks and risks given.**
- **Air and ground crews to be isolated from risk areas during operations.**
- **Potential methane flares (Division Hayton) from Eves Valley Landfill**

1. Pigeon Valley	2. 6 Feb2019 0700 to 1900
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# Medical Plan

RF206

3. First Aid Station		Phone/Radio Channel	Paramedics available at Station				
Name	Location						
Each Crew must have available one First aid Level 1 Certified	Each crew						
Nelson 91 Ambulance	Forward command post	Waimea 1	1 Paramedic and 1 EMT				
4. Transportation Ambulance Service		Address	Phone/Radio Channel	Paramedics available with Ambulance			
Ambulance St Johns	Richmond station	111	Yes				
	Motueka/Stoke Nelson/						
5. Hospitals		Address	Phone	Travel Time		Burn Unit	Heli Pad
Hospital Name				Road	Air		
Nelson Public Emergency	Waimea Rd.	035461800	27m	4min	y	y	
Hutt Hospital (Burn Unit)		045666999	n/a	40min	Y	y	
6. Special Emergency Procedures							
Emergency Helicopter stationed at Nelson Airport "111"							
8. Reviewed by Safety Advisor:						Date/Time	

Prepared by: [REDACTED]	Date: 6 Feb2019	Time: 1500
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1. Pigeon Valley	2. 6 Feb2019 0700 to 1900
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FIRE WEATHER FORECAST

Attention Tasman Fire CD

FIRE WEATHER FORECAST

For Location [REDACTED] Pigeon Valley near Wakefield

Issued by MetService at 08:55am 06-Feb-2019, and valid for the following 9 hours

Wind: East to northeast 15-20km/h gusting 25-30km/h rising to east to southeast 25km/h gusting 40km/h this afternoon.

Precipitation: Remaining drizzle clearing this morning - Less than 1mm.

Temperature: Rising to 20-21C this afternoon.

Humidity: 65% lowering to 40-50% this afternoon.

Outlook for the next 12 hours :

Mailny fine, some cloud about. Temperatures lowering to 10-12C.

Humidity increasing to 70-80%. Southeast easing to 10-15km/h.

**Outlook for next 6 days:**

Thursday: Light winds, sunny, dry and max temperature around 21C.

Friday: Light winds, sunny, dry and max temperature around 20C.

Saturday: Light winds, sunny, dry and max temperature around 22C.

Sunday: Northerlies, partly cloudy, a few light showers and max temperature about 22C.

Monday: Northerlies and rain, max temperature arond 21C.

Tuesday: Light winds, sunny and max temperature around 23C.

Fire Indices for Wednesday 6<sup>th</sup> Feb 2019 (8:00am)

FFMC 83 (easy Ignition)

DMC 95.8

DC 451.1

ISI 2.9 (moderately fast rate)

BUI 125.1 (Extreme)

FWI 14.5 (high fire intensity)

Prepared by: [REDACTED]	Date:6 Feb2019	Time: 1500
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1. Pigeon Valley	2. 6 Feb2019 0700 to 1900
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### FIRE BEHAVIOUR FORECAST

<b>Fire name: Pigeon Road</b>				<b>Prediction for: 0800-1800 07 Feb-19</b>					
<b>Prepared by:</b> ██████████				<b>Time and date issued:</b> 1500 06 Feb 19					
<b>Forecast no. 1</b>				Day Shift					
<i>Assumptions:</i>				<i>today's forecast</i>					
<b>Temp</b>	<b>RH</b>	<b>Wind</b>	<b>Slope *</b>	<b>FFMC</b>	<b>DMC</b>	<b>DC</b>	<b>ISI</b>	<b>BUI</b>	<b>FWI</b>
17.1	59.4	10.7	0	86	98.3	463.3	4.2	128.1	19.1

Rates of spread are the equilibrium rate of spread, not the build-up phase, with continuous fuel and similar fuel type.

**Fire Behaviour General:**

<b>Expected fire behaviour</b> – slope 0°	<b>Forecast</b> worst case – 28°C 45%RH slope 20° 1400-1800
<i>Fuel type: Mature Pine – 5m pruned</i>	<i>Fuel type: Mature Pine – 5m pruned</i>
Expect HF rate of spread of 40 m/hr HF Intensity 633 kw/m Flame lengths 1.5	Expect HF rate of spread of 200 m/hr HF Intensity 2100 kw/m Flame lengths 3 m
<i>Fuel type: Scrub/gorse 2m height</i>	<i>Fuel type: Scrub/ gorse 2m height</i>
Expect HF rate of spread of 926 m/hr HF Intensity >10000 kw/m Flame lengths 6.7 m	Expect HF rate of spread of 3000 m/hr HF Intensity >10000 kw/m Flame lengths 13 m
<i>Fuel type: Grass-70% GC, 100% cover, 0.1m height</i>	<i>Fuel type: Ungrazed Grass -70% GC, 100% cover, 0.2m height</i>
Expect HF rate of spread of 187 m/hr HF Intensity 296 kw/m Flame lengths 1.1 m	Expect HF rate of spread of 600 m/hr HF Intensity 1050 kW/m Flame lengths 2 m
<b>Safety Considerations:</b>	
Head Fire intensity, and flank fire intensity exceed threshold for direct attack in gorse/ scrub fuels.	Head Fire intensity exceed threshold for direct attack in gorse and mature pine fuels, and flank fires in gorse. Flank fires intensity is now too high for ground crews
. Weather conditions for Thursday are predicted to be similar to Wednesday. The NE conditions should continue to provide higher relative humidities and enable a focus on containment activity. Watch for a fall in RH as the afternoon develops and be prepared to adjust your attack strategy.	

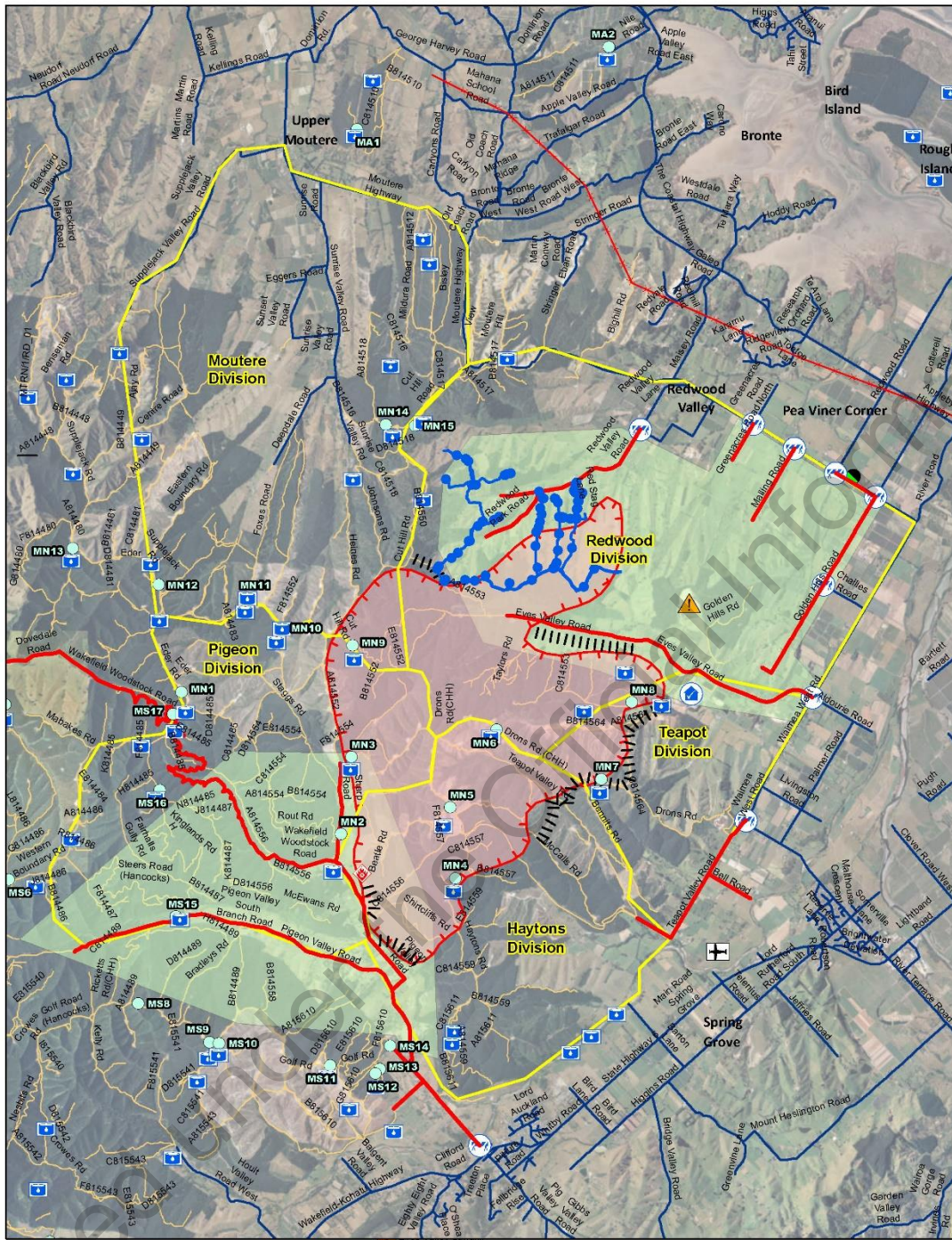
<b>Prepared by:</b> ██████████	<b>Date:</b> 6 Feb2019	<b>Time:</b> 1500
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1. Pigeon Valley	2. 6 Feb2019 0700 to 1900
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Released under the Official Information Act

Prepared by: [REDACTED]	Date:6 Feb2019	Time: 1500
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Prepared by: petei

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Projection: Transverse Mercator  
Datum: NZGD 2000  
Units: Meter  
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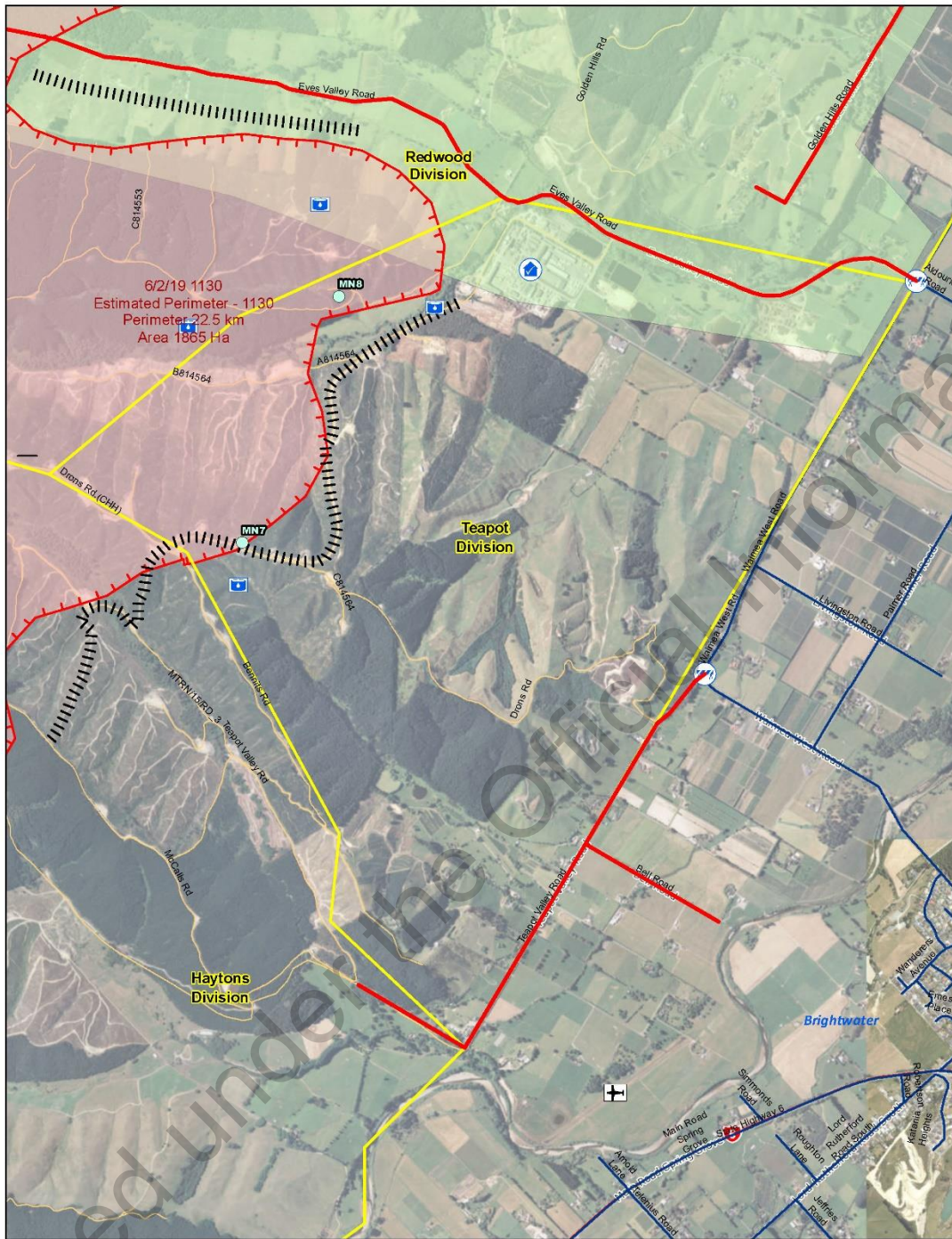
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- Eves Valley Sawmill
- Fire Origin
- Forward Control Point
- Road Block
- FireSectors
- Pigeon Valley Fire Extent
- EM\_EventArea



Pigeon Valley Fire Overview

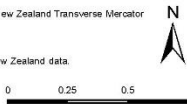


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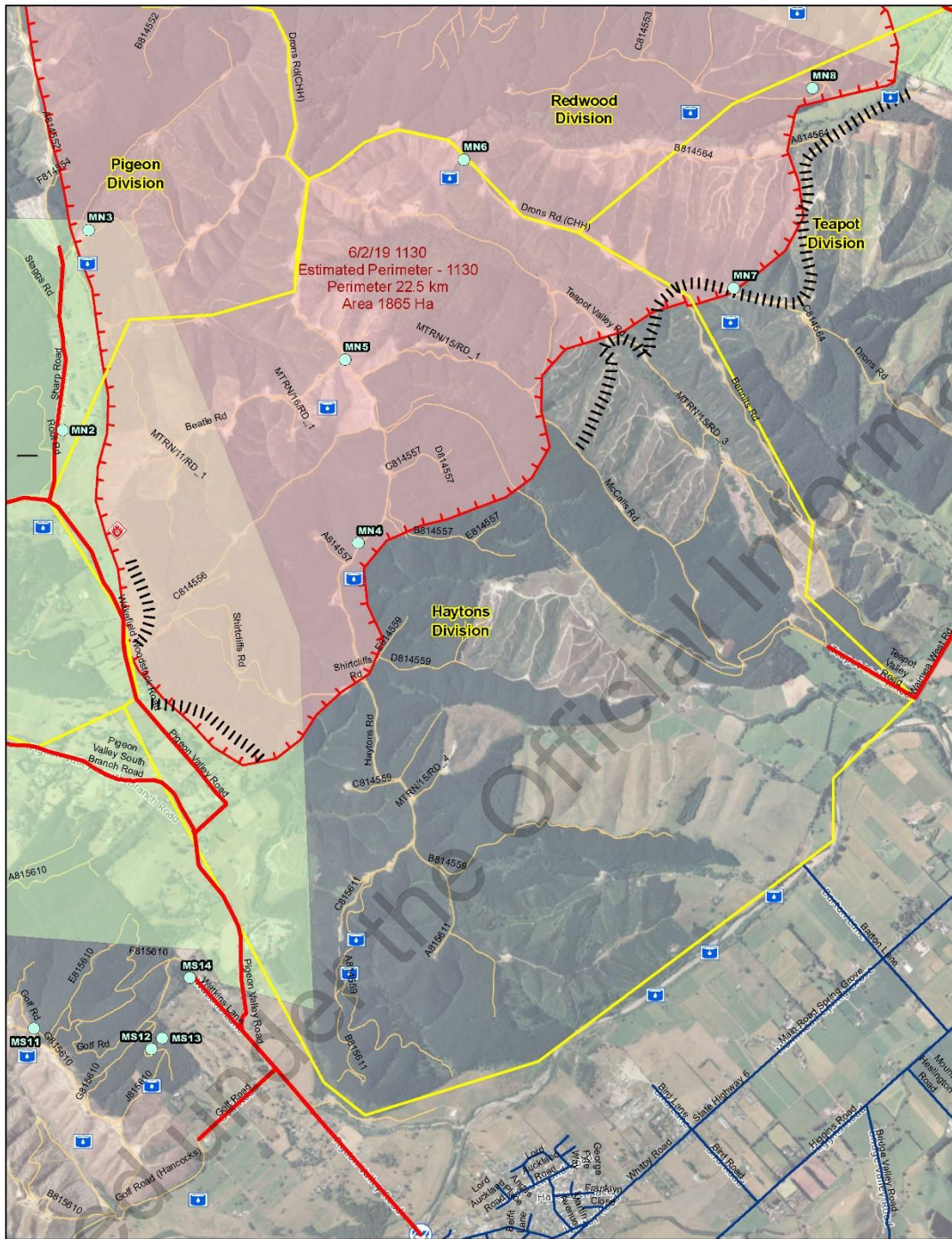
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- | Description               |
|---------------------------|
| Planned Dozer Break       |
| Airstrip                  |
| Eves Valley Sawmill       |
| Road Block                |
| Fire Sectors              |
| Pigeon Valley Fire Extent |
| Pigeon Valley Fire Extent |
| EM_Event Area             |



Pigeon Valley Fire Overview

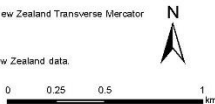


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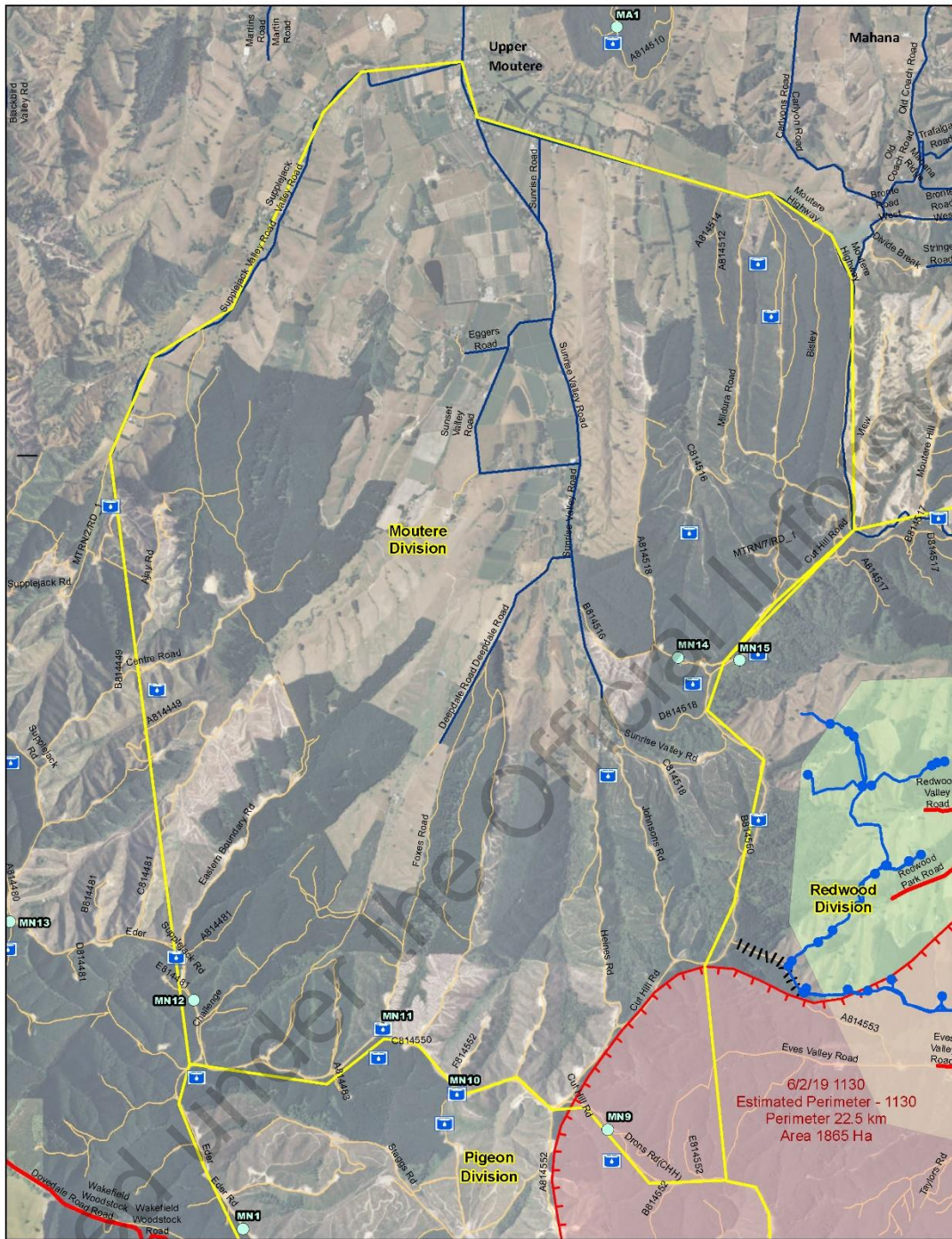
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- Description**
- Planned Dozer Break
  - Eves Valley Sawmill
  - Fire Origin
  - Road Block
  - Fire Sectors
  - Pigeon Valley Fire Extent
  - EM\_Event Area



Pigeon Valley Fire Overview



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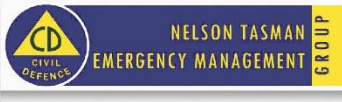
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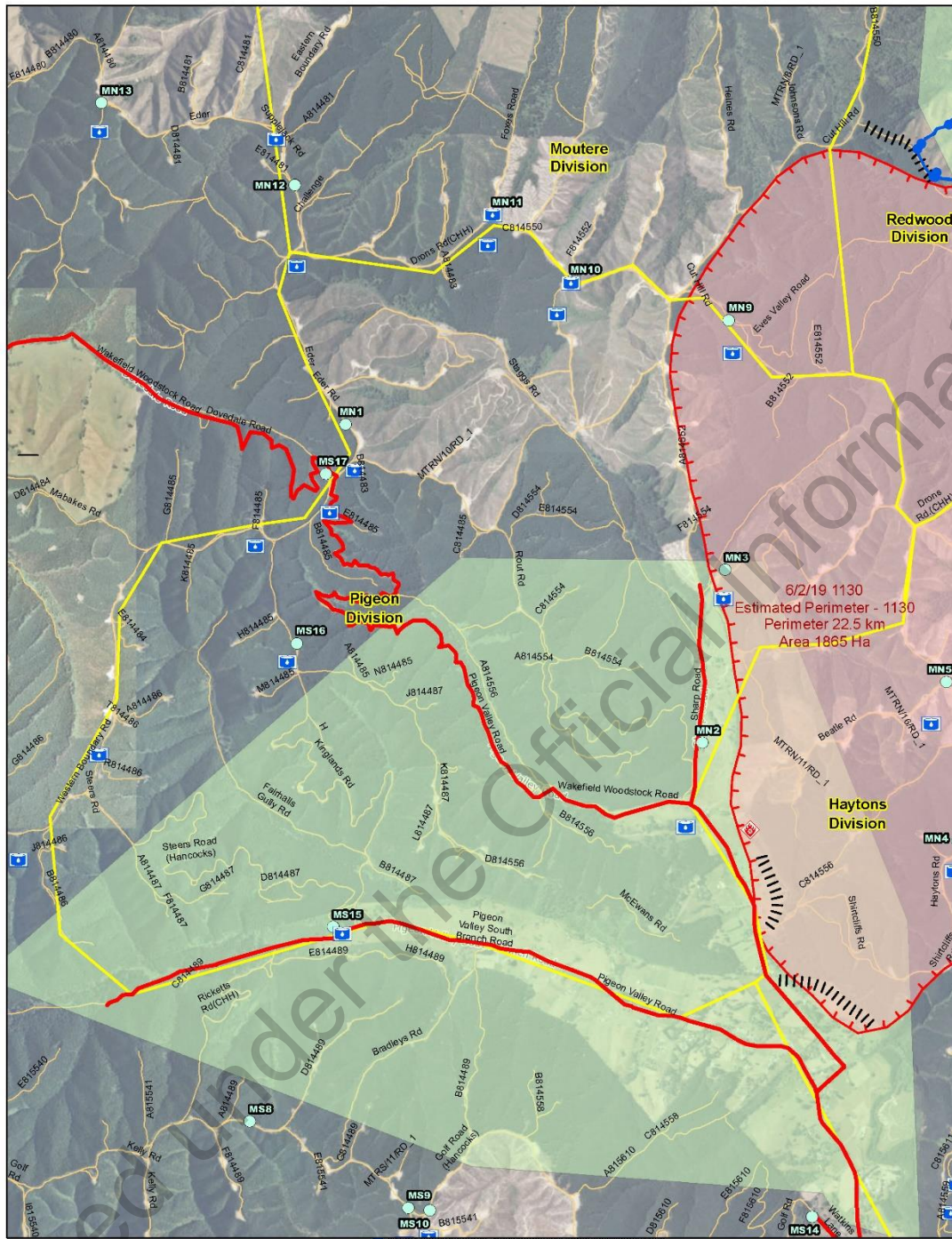
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- WaterSurfaceFeatures\_RedwoodValleyPropertiesWithoutWater
- Waterpoints
- Water Locations\* - Tasman Pine Data
- WaterPipes\_RedwoodValleyPropertiesWithoutWater
- ClosedRoads
- Description
- || Planned Dozer Break
- Power Line
- FireSectors
- Pigeon Valley Fire Extent
- Pigeon Valley Fire Extent
- EM\_EventArea



Pigeon Valley Fire Overview



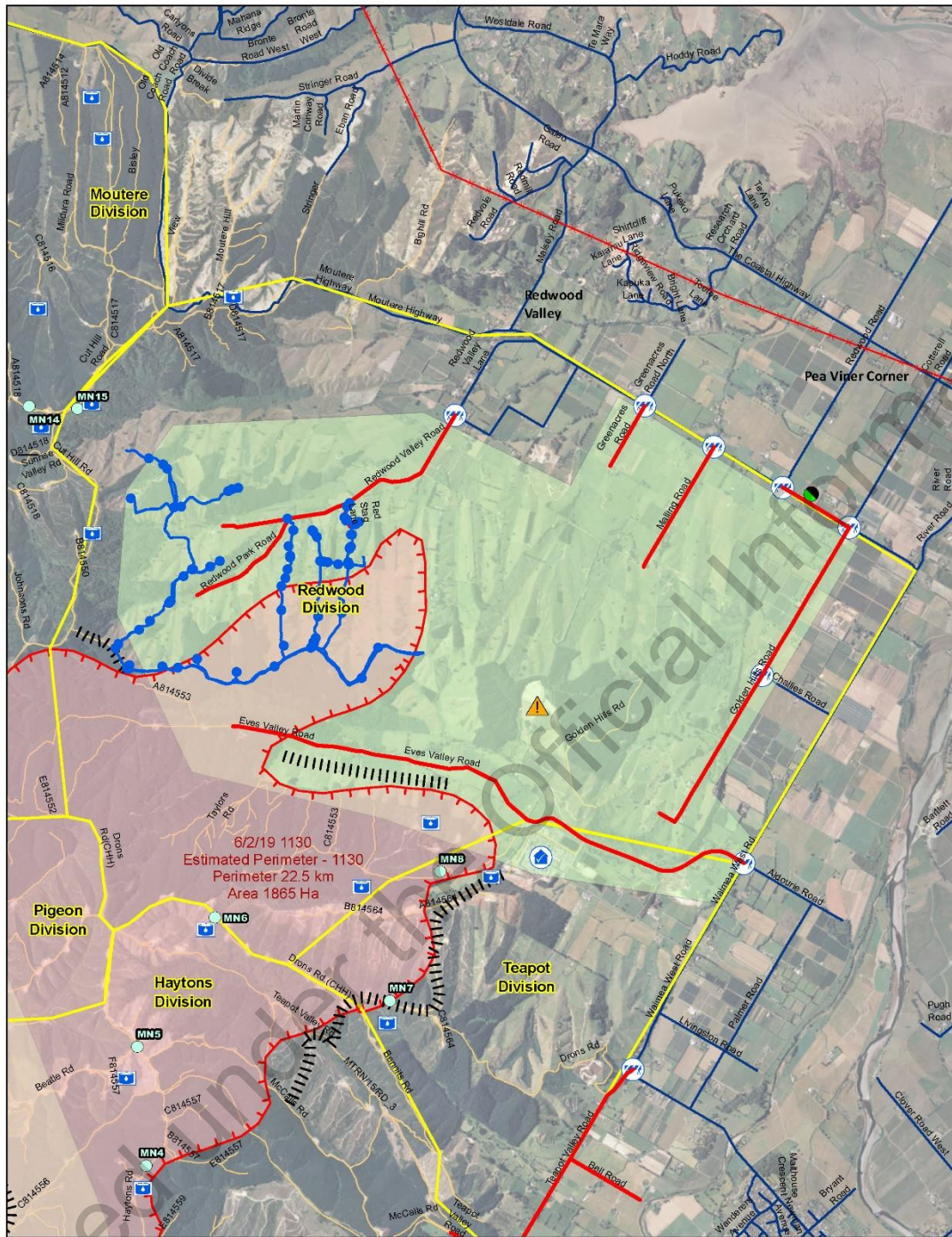
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 Projection: Transverse Mercator  
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 Units: Meter  
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 Scale at A3 1:23,459

- Waterpoints
- Water Locations\* - Tasman Pine Data
- WaterPipes\_RedwoodValleyPropertiesWithoutWater
- ClosedRoads
- Description
- Planned Dozer Break
- Fire Origin
- Fire Sectors
- Pigeon Valley Fire Extent
- Pigeon Valley Fire Extent
- EM\_EventArea



Pigeon Valley Fire Overview



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- Eves Valley Landfill
- Eves Valley Sawmill
- Forward Control Point
- Road Block
- Fire Sectors
- Pigeon Valley Fire Extent
- Pigeon Valley Fire Extent
- EM\_EventArea



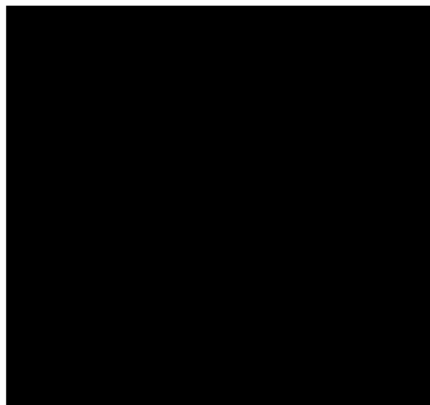
Pigeon Valley Fire Overview

<b>Incident Name</b>	<b>Operational Period</b>	<b>IAP COVER SHEET</b> RF199
Pigeon Valley	Date 8/2/2019 Time 0700 - 1900	

## INCIDENT ACTION PLAN

The items checked below are included in the incident Action Plan

- SITUATION REPORT
- INCIDENT OBJECTIVES
- ORGANISATIONAL LIST
- SECTOR ASSIGNMENT
- DIVISIONAL ASSIGNMENT
- AIR OPERATIONS PLAN
- COMMUNICATION PLAN
- SAFETY PLAN
- MEDICAL PLAN
- FIRE MAP
- WEATHER FORECAST AND MAP
- FIRE BEHAVIOUR FORECAST
- OVERVIEW MAPS AND DOWNLOAD QR CODES
- PUBLIC INFORMATION & MEDIA



<b>Approved by Incident Controller:</b>	<b>Signed</b>	<b>Date/Time</b>
Name		2000 7/2/19



<b>1. Incident Name</b> <b>Pigeon Valley</b>	<b>2. Operational Period</b> Date 8/2/2019 Time 0700 - 1900	<b>SITUATION REPORT</b> RF201
<b>3. Location</b> Pigeon Rd, Eves Valley, Tasman	<b>4. Vegetation</b> Forest/Scrub/Grass/Slash/ Other:	
<b>6. Assessment</b> <p>A large scrub/ forest fire is currently burning estimated to be 1874ha as at 1900hrs on 7<sup>th</sup> Feb with a This afternoon we have experienced a breakout in an area where the boundary hadn't been secured. approximately 170ha of heavy fuels (pine forest).          25 residences on the boundary of this breakout have been evacuated          Values at risk are life, property.          Telecommunications site on the end of Cooks Rd (near Wakefield) is at risk with northerly wind.          Evacuations are still in place for the following areas while operations are still active.</p> <ul style="list-style-type: none"> <li>• Eves Valley, Golden Hills Rd, Redwood Valley Rd, Tea Pot Valley, Bartons Lane</li> </ul>		
<b>7. Action taken</b> <p>Resources deployed include 6 bull dozers, 7 excavators, 6 tankers, 15 rural appliances, 9 urban appliances, 3 Defence Force appliances and 22 Helicopters are currently working today as well as two fixed wings. A lot of this resource is now targeting the breakout area.          Due to the nature of the terrain and vegetation helicopter resources are targeting this area, though control is proving difficult with the current weather conditions, extreme dryness of the forest/ scrub fuels and the resulting high fire intensity.          Changes in fuel as the fire moves to pasture and to the contingency fire-breaking (on the northern end) will assist in suppressing this breakout.          Black out work, machine fire breaking and hot spot targeting is continuing on the other parts of the fire ground.          For night shift there will be 11 crew, 5 bull dozers, 5 excavators, 4 tankers, 3 rural appliances and 6 urban appliances. No Defence Force resources.</p>		
<b>8. Factors,</b> <p>Extreme fire conditions. Limited water supply. Changeable wind conditions. Wind conditions the current breakout fire is creating. Sustained 20km winds gusting to 30km/hr, warm temperatures and lower humidity.</p>		

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**9. Predicted Incident Development**

Weather conditions and fuel continuity will have a large influence on the management of the current breakout.

6pm Today – 6am Friday

Rainfall: None expected.

Sustained wind: NNE 10 km/h or less through to about 10 pm. After 10 pm, winds shift to SSW, remaining less than 10 km/h through to 6 am.

Wind gusts: Gusts up to 30 km/h possible through to about 8 pm. Thereafter, gusts overnight will remain 20 km/h or less.

Temperature: Around 19°C at 6pm, decreasing to 11-12°C by 6am Friday.

Humidity: Near 45% at 6pm, increasing to 70-75% by 6 am Friday.

Efforts to suppress the fire are continuing but proving to be challenging for helicopters due to the height of the vegetation (e.g. trees and grass) and the height of the flames. The effectiveness of our efforts will improve as the fire heads towards the flatter grassland. We are also anticipating that the wind will decrease during the night.

**10. Prepared by:** [REDACTED]  
**Authorised by** [REDACTED] **(Incident Controller)**

**Date/Time:**  
1900 7<sup>th</sup> Feb 2019

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<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 8/2/2019 Time 0700 - 1900	<b>INCIDENT OBJECTIVES</b> RF202
<b>3. Overall Incident Objectives</b> <ol style="list-style-type: none"> <li>1. Ensure the safety of responders and public at all times during the incident</li> <li>2. Minimise the impact on structures, infrastructure, assets and values during the incident</li> <li>3. Minimise impact on environment, culture and historic values during the incident</li> <li>4. Ensure communication and information, liaison with stakeholders/ community/ public/ government bodies and affected parties is timely, meets standards and requirements at all times during the incident</li> <li>5. Report on costs on a daily basis by 1800</li> <li>6. Return community to homes/normal life as soon as practicable</li> <li>7. Investigate cause (including protect initial ignition site and evidence)</li> </ol>		
<b>4. Strategies to meet objectives</b> <ol style="list-style-type: none"> <li>1. Create a safety plan and safety briefing for all staff and contractors. Monitor fire behaviour and establish triggers and cordons for withdrawals and evacuation.</li> <li>2. Use media, trusted community channels and stakeholders to establish communications and engagements. Establish regular briefings and updates.</li> <li>3. Identify critical infrastructure, assets and values. Structures have structure protection crews and technical liaison where required. Water courses and dip sites identified with environmental protection.</li> <li>4. Cultural/Historical/environmental values identified on incident ground (Actual and projected)</li> <li>5. Assign fire investigation to determine cause</li> <li>6. Financial reporting established and continued</li> <li>7. Create a recovery plan with community and stakeholders to assist post incident. <ul style="list-style-type: none"> <li>• Consider operation delivery to minimise impacts in support of the recovery plan.</li> </ul> </li> </ol>		
<b>5. Prepared by:</b> ██████████	<b>Date/Time: 1900 7/2/19</b>	

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<b>1. Incident Name</b>	<b>2. Operational Period</b> Date 8/2/2019 Time 0700 - 1900	<b>ORGANISATION ASSIGNMENT</b> RF203	
<b>3. Incident Control</b>		<b>Phone</b>	<b>Radio Ch</b>
Incident Controller	[REDACTED] (NIMT)	[REDACTED]	
Deputy IC	[REDACTED] (NMIT)	[REDACTED]	
Information Officer	[REDACTED]	[REDACTED]	
Safety Officer	[REDACTED] (NMIT)	[REDACTED]	
Liaison Officer	[REDACTED]	[REDACTED]	
<b>4. Agency Representative</b>		<b>Phone</b>	<b>Radio Ch</b>
Lead Agency	FENZ [REDACTED] PRFO	[REDACTED]	
Agency	Police [REDACTED]	[REDACTED]	
Agency	[REDACTED]	[REDACTED]	
Agency	CDEM [REDACTED]	[REDACTED]	
Agency	CDEM Duty Phone	[REDACTED]	
Agency	FENZ Urban Liason [REDACTED]	[REDACTED]	
<b>5. Planning/Intell Section</b>		<b>Phone</b>	<b>Radio Ch</b>
Planning/Intell Manager	[REDACTED]	[REDACTED]	
Situations Unit	[REDACTED]	[REDACTED]	
	[REDACTED] (FBAN)	[REDACTED]	
	[REDACTED] (Observer)	[REDACTED]	
	[REDACTED] (Intel)	[REDACTED]	
	[REDACTED] (GIS)	[REDACTED]	
	[REDACTED] (GIS)	[REDACTED]	
	[REDACTED] (Observer)	[REDACTED]	
	[REDACTED] (Observer)	[REDACTED]	
Resources Unit	[REDACTED]	[REDACTED]	
	[REDACTED] (EoC)	[REDACTED]	
	[REDACTED] (Caravan	[REDACTED]	
	Check in)	[REDACTED]	
Management Support Unit	[REDACTED]	[REDACTED]	
Information Unit			
Advance Planning Unit			
Technical Specialists Unit			

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6. Logistics Section		Phone	Radio Ch
Logistics Manager	██████████ (NMIT)	██████████	
	██████████ (Day)		
	██████████ Night)		
Supply Unit	██████████		
Catering Unit			
Facilities Unit			
Finance Unit			
Communications Unit			
Medical Unit			

7. Operations Section		Phone	Radio Ch
Operations Manager	██████████	██████████	
Deputy Operations Manager			
Division One Commander			
Sector A Supervisor			
Sector B Supervisor			
Sector C Supervisor			
Sector D Supervisor			
Division Two Commander			
Sector E Supervisor			
Sector F Supervisor			
Sector G Supervisor			
Sector H Supervisor			
Air Division Commander	██████████ (NMIT)	██████████	
Air Attack Supervisor	██████████		
Air Support Supervisor	██████████		

8. Prepared by: ██████████ Date/Time: 1900 7/2/19

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 8/2/2019 Time 0700 – 1900		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Alpha		<b>4. Description</b> Point of ignition to Dove Saddle on Eder Rd			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>		<b>Radio Ch</b>	
██████████		██████████		Command: Fire Crew: Simplex	
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
<i>Radio Ch</i>					
Bulldozer D7		TLC			
Excavator 20T		TLC			
Tasman Smoke Chaser + 3px					
Hira Smoke Chaser + 3px					
Hira 5575 +4px					
Doc Motukea 3px					
DOC Takaka 8px					
Greymouth 4px					
<b>7. Division Assignment/Special Instructions</b>					
<p><b>Ground Crews:</b> Blacking out to 30 metres in to the forest in successive 10 metre increments along the length of the perimeter where safe to do so. Provide 2 hourly SITREP to FCP by COMMS Channel OPS2 or Mobile. Join Comms Facebook Group "Pigeon Valley – INTERNAL COMMS" and contribute imagery and video throughout day. Also view images and video collected by aerial ops during day.</p> <p><b>Heavy Equipment –</b></p> <ol style="list-style-type: none"> <li>1. Widen the break from the head of Sharps Valley up the ridge to connect to Cut Hill Rd</li> <li>2. Bryants using fellerbunchers to remove large trees on the east side of Cut hill Rd (already on site).</li> <li>3. Strengthen Eder road fire break from Cuthill Rd to Route Rd and down Route Rd to North pigeon Valley Rd.</li> </ol> <p><b>Helicopters:</b> Support ground crew as required and divisional commanders to call air attack (██████████) with requirements</p>					
<b>8. Division Communications</b>				<b>Phone</b>	
Operations Manager		██████████		██████████	
Air Division Commander		██████████		██████████	
				<b>Radio Ch</b>	
				Fire 1/Cellphone	
				Fire 4/Cellphone	
<b>9. Prepared By:</b> ██████████				<b>Date/Time</b> 1900 7/2/19	

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 8/2/2019 Time 0700 – 1900		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Xray		<b>4. Description</b> Division from Cut hill/Eder Rd to CHH saw mill			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>		<b>Radio Ch</b>	
██████████		██████████		Fire 5	
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
<i>Radio Ch</i>					
Appleby Tanker					
Smoke Chaser Wainui 3px					
NZDF RFA x7px					
DOC North Canterbury 5px					
AFM – ██████ 4px					
<b>7. Division Assignment/Special Instructions</b>					
<p><b>Ground Crews:</b> Blacking out to 30 metres in to the forest in successive 10 metre increments along the length of the perimeter where safe to do so. Provide 2 hourly SITREP to FCP by COMMS Channel OPS2 or Mobile Join Comms Facebook Group “Pigeon Valley – INTERNAL COMMS” and contribute imagery and video throughout day. Also view images and video collected by aerial ops during day.</p> <p><b>Heavy Equipment</b> –Cut and strengthen a line along Cuthill Rd from Eder Rd to where it meets the paddocks past Johnsons Rd</p> <p><b>Helicopters:</b> Support ground crew as required and divisional commanders to call air attack ( ██████ ) with requirements</p>					
<b>8. Division Communications</b>					
Operations Manager ██████				<b>Phone</b>	
Air Division Commander ██████				<b>Radio Ch</b>	
				Fire 1/Cellphone	
				Fire 4/Cellphone	
<b>10. Prepared By:</b> ██████				<b>Date/Time</b> 1900 7/2/19	

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 8/2/2019 Time 0700 – 1900		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Zulu		<b>4. Description</b> Division from Cut hill/Eder Rd to CHH saw mill			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>		<b>Radio Ch</b>	
██████████		██████████		██████	
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
4x Excavator 20T		TLC			
D65 Dozer		██████████			
Watertanker					
Tree + Forestry + 4px					
Otago 10px					
<b>7. Division Assignment/Special Instructions</b>					
<p><b>Ground Crews:</b> Blacking out to 30 metres in to the forest in successive 10 metre increments along the length of the perimeter where safe to do so. Provide 2 hourly SITREP to FCP by COMMS Channel OPS2 or Mobile Join Comms Facebook Group “Pigeon Valley – INTERNAL COMMS” and contribute imagery and video throughout day. Also view images and video collected by aerial ops during day.</p> <p><b>Heavy Equipment</b> –Dozer break from the existing retardant line, follow busline across McCalls Road to sector boundary at Bennets Rd</p> <p><b>Helicopters:</b> Support ground crew as required and divisional commanders to call air attack (██████████) with requirements</p>					
<b>8. Division Communications</b>				<b>Phone</b>	
Operations Manager		██████████		Fire 1/Cellphone	
Air Division Commander		██████████		Fire 4/Cellphone	
<b>11. Prepared By:</b> ██████████				<b>Date/Time</b> 1900 7/2/19	

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 8/2/2019 Time 0700 – 1900		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Yankee		<b>4. Description</b> Bennets Road to CHH saw mill at Eves Valley			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>		<b>Radio Ch</b>	
██████████	Wakefield VFB	██████████		Fire 3	
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
2x Excavator 20T		Taylors			
Bulldozer D8		Taylors			
Brightwater 5026 + 3px					
Rural Tanker Downers + 1px					
Brightwater 5011 + 3px					
Stoke 221 + 5px					
Richmond 331 + 4px					
Ngatimoti + 4px					
<b>7. Division Assignment/Special Instructions</b>					
<b>Ground Crews:</b>					
<ul style="list-style-type: none"> <li>• Urban crews for protection of Eves Valley Mill or other properties as required.</li> <li>• Blacking out to 30 metres in to the forest in successive 10 metre increments along the length of the perimeter where safe to do so.</li> <li>• Provide 2 hourly SITREP to FCP by COMMS Channel OPS2 or Mobile</li> <li>• Join Comms Facebook Group "Pigeon Valley – INTERNAL COMMS" and contribute imagery and video throughout day.</li> </ul>					
<b>Heavy Equipment</b> – 2x Excavators working to assist with firebreaks and clearing around the Yankee Zulu intersection.					
<b>Helicopters:</b> Support ground crew as required and divisional commanders to call air attack (██████████) with requirements					
<b>8. Division Communications</b>				<b>Phone</b>	
Operations Manager		██████████		██████████	
Air Division Commander		██████████		██████████	
				Fire 1/Cellphone	
				Fire 4/Cellphone	
<b>12. Prepared By:</b> ██████████				<b>Date/Time</b> 1900 7/2/19	



<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 8/2/2019 Time 0700 – 1900		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Property Assessments		<b>4. Description</b> Functional division across Pigeon Valley Incident			
<b>5. Division Commander</b>	<i>Affiliation</i>	<i>Phone</i>		<i>Radio Ch</i>	
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	<i>Radio Ch</i>
██████████		FENZ Liaison			
<b>7. Division Assignment/Special Instructions</b>					
<ol style="list-style-type: none"> <li>The property assessments are being planned and completed to ensure the safety of responders and residents during visitation and reoccupation .Fire danger risk assessments will be completed for each property , surrounding area and access routes. The risk assessments will include work on danger trees, condtion of surrounding flammable fuels and built structures. These will be reviewed in relation to incident statues and predicted weather.</li> <li>The assessments will include staff from Civil defence, FENZ and specialist contractors as required.</li> <li>Liaison communications will be maintained with division commanders at all times when on the incident ground</li> <li>Timeline for the assessments to be confirmed</li> </ol>					
<b>8. Division Communications</b>				<i>Phone</i>	<i>Radio Ch</i>
Operations Manager		██████████	██████████	██████████	Fire 1/Cellphone
Air Division Commander		██████████	██████████	██████████	Fire 4/Cellphone
<b>13. Prepared By:</b> ██████████				<b>Date/Time</b> 1900 7/2/19	

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 8/2/2019 Time 0700 – 1900		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Rabbit Island		<b>4. Description</b> Rabbit Island			
<b>5. Division Commander</b>	<i>Affiliation</i>	<i>Phone</i>		<i>Radio Ch</i>	
██████████		██████████		Fire 3	
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
<i>Radio Ch</i>					
Mapua Excavator					
Motueka Urban + 5px					
<b>7. Division Assignment/Special Instructions</b>					
<ul style="list-style-type: none"> <li>Patrol and hot spotting as identified</li> </ul>					
<b>8. Division Communications</b>					
				<i>Phone</i>	
				<i>Radio Ch</i>	
Operations Manager		██████████		██████████	
				Fire 1/Cellphone	
Air Division Commander		██████████		██████████	
				Fire 4/Cellphone	
<b>14. Prepared By:</b> ██████████				<b>Date/Time</b> 1900 7/2/19	

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<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 8/2/2019 Time 0700 - 1900	<b>AIR OPERATIONS PLAN</b> RF208
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<b>3. Personnel and Communications</b>				
Position	Name	Affiliation	Phone	Radio Chan
Air Div Commander	[REDACTED]		[REDACTED]	
Air Attack Supervisor	[REDACTED]		[REDACTED]	Fire 4
Air Support Supervisor	[REDACTED]		[REDACTED]	
Lead Helicopter Pilot				
Lead Fixed-Wing Pilot				

<b>4. Air Resource Assignments</b>					
Pilot Name/ Company	Aircraft Type	Reg or Call sign	Assignment	Tactical Freq/Chan	Telephone Numbers
Becks	UH-1	HHF		Fire 4	
Becks	UH-1	HHB		Fire 4	
Helicharter	500D	HXX		Fire 4	
Garden City Helicopters	B3	IHL		Fire 4	
Garden City rk Helicopters	EC130	IGF		Fire 4	
Garden City Helicopters	BK	IVB		Fire 4	
Reid Heli	B2	HPE		Fire 4	
Reid Heli	FX2	HEX		Fire 4	
Reid Heli	B2	IOR		Fire 4	
Southern Heli Lift	UH-1L	HUE		Fire 4	
Marlborough Heli	Jetranger	HJI		Fire 4	
Marlborough Heli	Long Ranger	HTA		Fire 4	
Skyworks	B3	HWW		Fire 4	
Amuri Heli	FX2	HJM		Fire 4	
Anderson	B2	HKA		Fire 4	
Wellington Heli	EC130	IWW		Fire 4	
Independent Heli	EC130	IWS		Fire 4	
Christchurch Heli	B2	HNC		Fire 4	
Wanaka Heli	B2	HFF		Fire 4	
Mt Hutt Heli	BA	HDQ		Fire 4	
Heliventures	B2	IER		Fire 4	
Murchison Heli				Fire 4	
[REDACTED]	Cresco			Fire 4	[REDACTED]
[REDACTED]	Airtractor			Fire 4	
Interpine	RPAS / UAV	PINES1		Fire 4	[REDACTED]

<b>5. Location of Filling Points/Service Areas</b>	
Name	Grid Reference
Heli base	-41.31777, 137.10987
Fixed wing	41 22 39.9 S 173 05 04.6 E

<b>6. Safety Notes / Hazards / Radio Coverage Limitations</b>
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**7. Air Operations Special Equip or Service**

Retardent filling crew (Fixed Wing)

[REDACTED]

**8. Prepared By:**

[REDACTED]

**Date/Time:** 1900 7/2/19

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 8/2/2019 Time 0700-1900		<b>COMMUNICATIONS PLAN</b> RF205	
<b>3. Radio Channels</b>					
<i>Assigned To</i>	<i>Function</i>	<i>Channel</i>	<i>Frequency</i>	<i>System</i>	
Command		Waimea 1	152.55000 RX 154.33125 TX		
Division Alpha	Operational	Fire 1	143.82500		
Division Zulu	Operational	Fire 2	143.78750		
Division Yankee	Operational	Fire 3	140.92500		
Division Xray	Operational	Fire 1	143.82500		
Division Bravo	Operational	Fire 2	143.78750		
Air Ops -Heli	Operational	Fire 4	140.61250		
Air Ops – Fixed Wing	Operational	Fire 10	140.98750		
Emergency		Waimea 1	152.55000 RX 154.33125 TX		
Resources		Waimea 1	152.55000 RX 154.33125 TX		
FireCom		FireCom			
2 Hourly - Sitrep		OPSR2		Use mobile if difficult coms to FCP	
<b>4. Telephone</b>					
<i>Assigned To</i>	<i>Landline</i>	<i>Cell phone</i>	<i>Fax</i>	<i>Comments</i>	
Emergency		111			
Regional Command Centre (RCC)					
<b>6. Other (e.g. email, Satphone, etc)</b>					
Resources	<a href="mailto:resources@FENZNelsonIMT.com">resources@FENZNelsonIMT.com</a>				
Safety	<a href="mailto:safety@FENZNelsonIMT.com">safety@FENZNelsonIMT.com</a>				
Logistics	<a href="mailto:logistics@FENZNelsonIMT.com">logistics@FENZNelsonIMT.com</a>				
PIM	<a href="mailto:pim@FENZNelsonIMT.com">pim@FENZNelsonIMT.com</a>				
Planning	<a href="mailto:planning@FENZNelsonIMT.com">planning@FENZNelsonIMT.com</a>				
Forward Control Point ( FCP)	<a href="mailto:icu.nelson@fireemergency.nz">icu.nelson@fireemergency.nz</a> <span style="background-color: black; color: black;">[REDACTED]</span>				
Situation / GIS / Intel	<a href="mailto:situation@FENZNelsonIMT.com">situation@FENZNelsonIMT.com</a>				

Operations	<a href="mailto:operations@FENZNelsonIMT.com">operations@FENZNelsonIMT.com</a>	
Photos and imagery	Join Facebook site; Pigeon Valley Fire - INTERNAL COMMS	<a href="https://www.facebook.com/groups/1924082991035550/">https://www.facebook.com/groups/1924082991035550/</a>
6. Prepared by: [REDACTED]		Date/Time 1900 7/2/19
1. Incident Name Pigeon Valley	2. Operational Period Date 8/2/2019 Time 0700-1900	<b>SAFETY PLAN</b> RF209
<b>3. General Safety Points</b> <p>Everyone is to be signed in and out of the fire ground through the Incident Control Point for both safety check and payment records.</p> <p>Maintain regular situation reports (containing all relevant information) via line supervisors.</p>		

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<p style="text-align: center;"><b>LACES</b></p> <p><b>L</b> - Lookout(s)  <b>A</b> – Awareness  – Anchor Point(s)  <b>C</b> – Communication(s)  <b>E</b> – Escape Route(s)  <b>S</b> – Safety Zone(s)</p>	<p style="text-align: center;"><b>Fire Orders</b></p> <ol style="list-style-type: none"> <li>1. conditions and forecasts</li> <li>2. Know what your fire is doing at all times.</li> <li>3. Base all actions on current and expected fire behaviour of the fire.</li> <li>4. Identify escape routes and safety zones and make them known.</li> <li>5. <b>Post</b> lookouts when there is possible danger.</li> <li>6. <b>Stay</b> alert. Keep calm, Think clearly, act decisively.</li> <li>7. Maintain prompt communication with your crew/s, your supervisor and adjoining crews.</li> <li>8. Give clear instructions and ensure they are understood.</li> <li>9. Maintain control of your crew/s at all times.</li> <li>10. <b>Fight</b> fire aggressively having provided for safety first.</li> </ol>	<p style="text-align: center;"><b>Watchouts</b></p> <ol style="list-style-type: none"> <li>1. Fire size is unknown (no size up).</li> <li>2. Unfamiliar territory</li> <li>3. Safety zones and escape routes not identified.</li> <li>4. Unfamiliar with weather and local factors influencing fire behaviour.</li> <li>5. No communications link with crew members or supervisor.</li> <li>6. Instructions and assignments not clear.</li> <li>7. Weather is getting hotter, drier and relative humidity dropping</li> <li>8. Wind increases and/or changes direction.</li> <li>9. Getting frequent spot fires across the line</li> <li>10. Working uphill or down wind of a fire</li> <li>11. Working on a steep slope</li> <li>12. Working in rugged terrain</li> <li>13. Can't see main fire</li> <li>14. In unburnt vegetation</li> <li>15. Walking through hot ashes</li> <li>16. Working alone</li> <li>17. Getting tired</li> <li>18. Working near power lines</li> <li>19. Working near machinery</li> <li>20. Working with aircraft</li> <li>21. Working around trees or spars</li> </ol>
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**4. Specific Safety Points**

- Access points into fire controlled. Only those authorized to enter and they must receive a brief and be logged in. Time and access point
- Public access Managed
- Weather fire behaviour monitored for changes and communicated to crews. Risk identified to crews
- All crews to have adequate food, water, PPE to manage fatigue and hydration
- Crews to have identified emergency escape routes and emergency plan in the event of harm. Meeting point identified once evacuated.
- All workers to ensure they are competent for the tasks and risks given.
- Air and ground crews to be isolated from risk areas during operations.
- Potential methane flares (Division Hayton) from Eves Valley Landfill

**5. Prepared By:** [REDACTED]

**Date/Time** 1900 7/2/19

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 8/2/2019 Time 0700-1900			<b>MEDICAL PLAN</b> RF206			
<b>3. First Aid Station Name</b>		<b>Phone/Radio Channel</b>		<b>Paramedics available at Station</b>				
<b>Name</b>		<b>Location</b>						
Each Crew must have available one First aid Level 1 Certified		Each crew						
Nelson 91 Ambulance		Forward command post		Waimea 1		1 Paramedic and 1 EMT		
<b>4. Transportation Ambulance Service</b>		<b>Address</b>		<b>Phone/Radio Channel</b>		<b>Paramedics available with Ambulance</b>		
Ambulance St Johns		Closest unit		111		Yes		
<b>5. Hospitals</b>					<b>Travel Time</b>		<b>Burn Unit</b>	<b>Heli Pad</b>
<b>Hospital Name</b>		<b>Address</b>		<b>Phone</b>	<b>Road</b>	<b>Air</b>		
Nelson Public Emergency		Waimea Rd.		111	27m	4min	y	y
Hutt Hospital (Burn Unit)				111	n/a	40min	Y	y
<b>6. Special Emergency Procedures</b>								
St John will transport patients to whichever health facility is appropriate								
<b>7. Prepared By:</b> [REDACTED] Shift - Manager Nelson					<b>Date/Time</b> 1900 7/2/19			
<b>8. Reviewed by Safety Advisor:</b> [REDACTED]					<b>Date/Time</b> 1900 7/2/19			



## FIRE BEHAVIOUR FORECAST

<b>Fire name: Pigeon Road</b>				<b>Prediction for: 0800-1800 08 Feb-19</b>					
<b>Prepared by:</b> [REDACTED]				<b>Time and date issued:</b> 1400 Feb 19					
<b>Forecast no. 4</b>				Day Shift					
<i>Assumptions:</i>				<i>Friday's forecast</i>					
<b>Temp</b>	<b>RH</b>	<b>Wind</b>	<b>Slope *</b>	<b>FFMC</b>	<b>DMC</b>	<b>DC</b>	<b>ISI</b>	<b>BUI</b>	<b>FWI</b>
20	52	12	0	88	101	470	5.8	132	24

Rates of spread are the equilibrium rate of spread, not the build-up phase, with continuous fuel and similar fuel type.

**Fire Behaviour General:**

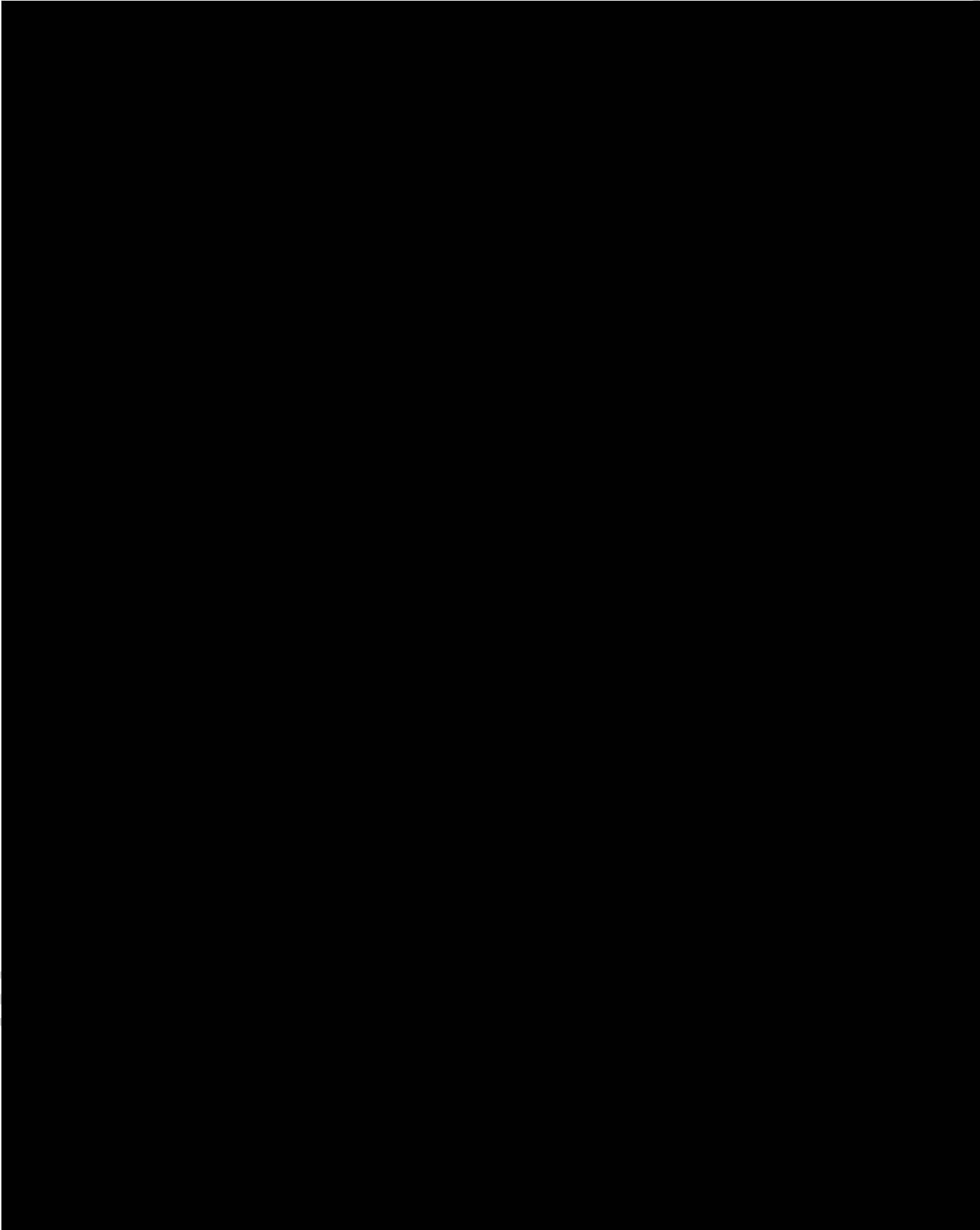
<b>Expected fire behaviour</b> – slope 0°	<b>Forecast</b> worst case – 28°C 45%RH slope 20° 1400-1800
<i>Fuel type: Mature Pine – 5m pruned</i>	<i>Fuel type: Mature Pine – 5m pruned</i>
Expect HF rate of spread of 50 m/hr HF Intensity 800 kw/m Flame lengths 1.5-2	Expect HF rate of spread of 200 m/hr HF Intensity 2100 kw/m Flame lengths 3 m
<i>Fuel type: Scrub/gorse 2m height</i>	<i>Fuel type: Scrub/ gorse 2m height</i>
Expect HF rate of spread of 1000 m/hr HF Intensity 10000 kw/m Flame lengths 6 m	Expect HF rate of spread of 3000 m/hr HF Intensity >10000 kw/m Flame lengths 13 m
<i>Fuel type: Grass-80% GC, 100% cover, 0.1m height</i>	<i>Fuel type: Ungrazed Grass -70% GC, 100% cover, 0.2m height</i>
Expect HF rate of spread of 200 m/hr HF Intensity 350 kw/m Flame lengths 1.2 m	Expect HF rate of spread of 600 m/hr HF Intensity 1150 kW/m Flame lengths 2 m
<b>Safety Considerations:</b>	
Head Fire intensity, and flank fire intensity exceed threshold for direct attack in gorse/ scrub fuels.	Head Fire intensity exceed threshold for direct attack in gorse and mature pine fuels, and flank fires in gorse. Flank fires intensity is now too high for ground crews
Based on the Dovedale weather station and NIWA forecasting, Friday is predicting to have NE winds stronger than Thursday.	

If prediction time is before 1200 NZST, use yesterday's noon daily FWI values; if after 1200 NZST, use today's FWI values.

# Fire Type = Surface fire (S), Intermittent (I) (i.e., torching), or continuous Crown fire (C)

<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 8/2/2019 Time 0700-1900	<b>MAPS</b> RF
<b>3. Download Avenza PDF Maps, Scan the Following Codes to Access Digital Maps</b>		

**QR CODES FOR MAP DOWNLOAD**





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<b>1. Incident Name</b> Pigeon Valley Fire, Nelson	<b>2. Operational Period</b> 08/02/2019 – 0700 to 1900
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# Public Information Management Plan

## Overview of PIM response

The NIMT and FENZ PIM team is working to support the Nelson Tasman Civil Defence PIM team. Is it essential that the information coming in from the fire ground (with regards to FENZ operations) is collated by the NIMT Situation Unit and shared to the Civil Defence IMT - this is done through the PIM teams working collaboratively and assists in timely, accurate and relevant information to all stakeholders involved.

Update @ 1830hrs: We have been informed late this evening that the weather forecast for tomorrow indicates the potential for smoke to blow over the Nelson City area at approximately midday. Messaging around this health risk will need to be included in future communications to the public.

## NIMT PIM team – as at Thursday 7<sup>th</sup> February

PIM Manager – [REDACTED]

PIM Manager 2IC - [REDACTED]

Media Manager - [REDACTED]

PIM Support – [REDACTED]

## Social Media Manager, Community Liaison, Evac/Alerts – Civil Defence

The PIM Team roster is available from NIMT Logistics Manager. There is a number of personnel changes occurring from tomorrow afternoon with a handover period.

## PIM meetings for 07/02/2019

10:30hrs – 1<sup>st</sup> Planning Meeting

13:00hrs – Tactics Meeting (sit-in only)

17:00hrs – 2<sup>nd</sup> Planning meeting & IAP Approval

Other informal meetings as required

## FENZ Stakeholders and Audience Groups

Organisation	Detail	Name	Contact Info
FENZ Org (forward system to ELT, NCC, OCE and Board)	Requires regular updates – committed to 4x updates daily at 0800hrs, 1100hrs,	RCC Christchurch	[REDACTED] and cc, [REDACTED] [REDACTED] and <a href="mailto:Media@fireandemergency.nz">Media@fireandemergency.nz</a>

	1500hrs and 1900hrs		
Evacuated Residents	Community Meeting – first one held at 0900 on Thursday 7 <sup>th</sup> Feb. Next one potentially Sat 9 <sup>th</sup> Feb.	Various	Comms through social media, Civil Defence website, welfare team and media.
Interested Public	Local community (not evacuated) and wider	Various	Social media posts, Civil Defence website, FENZ website, media outlets
Cordons	Managed by Police, kept updated via PIM team		Police Liaison in IMT
IMT and Support Staff	Information to help their roles	*See structure charts	Briefings, meetings, conversations between the teams, Sit Reps
Media Outlets	Require full-time management and contact	*See media list	

Direct message distribution	Details of the specific sites or types
Websites	Nelson Tasman Civil Defence - <a href="http://www.nelsontasmancivildefence.co.nz/">http://www.nelsontasmancivildefence.co.nz/</a> Fire and Emergency NZ <a href="http://www.fireandemergency.nz">www.fireandemergency.nz</a>
Social media	Main channel: Nelson Tasman Civil Defence facebook page Tasman-Malborough Fire Area facebook page
Helpline	Welfare Helpline – 03 543 8400
Information points	Cordons (located as per map)
Community contacts/meetings	Community Meeting tentatively scheduled for Saturday 9 <sup>th</sup> Feb at 0900hrs at Appleby Fire Station.
Media message distribution	Specific stations or publications
Radio	*See media list <b>The Project (TV)</b> have requested for interviews with firefighters for tomorrow night's show (8 <sup>th</sup> Feb)
TV	
Newspapers	
Media	Schedule
Media briefing/conferences	Proposing Media Stand Up at 8am – TBC depending on interest overnight.

Media site visits	None scheduled currently.
Interviews	Checkpoint interviewing John at 10pm tonight (07/02/19)
<b>Message monitoring</b>	
Messaging being monitored by Civil Defence PIM Team and dealt with / passed on accordingly. FENZ PIM team are supporting for Media management and FENZ / Operational information requiring to be gathered and shared.	

Prepared by: [REDACTED]

Date: 7/2/19 1900hrs

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<b>Incident Name</b>	<b>Operational Period</b>	<b>IAP COVER SHEET</b> RF199
Pigeon Valley	Date 8&9/2/2019 Time 1900 - 1900	

## INCIDENT ACTION PLAN

The items checked below are included in the incident Action Plan

- SITUATION REPORT
- INCIDENT OBJECTIVES
- ORGANISATIONAL LIST
- SECTOR ASSIGNMENT
- DIVISIONAL ASSIGNMENT
- COMMUNICATION PLAN
- SAFETY PLAN
- MEDICAL PLAN
- FIRE MAP
- WEATHER FORECAST AND MAP
- FIRE BEHAVIOUR FORECAST
- OVERVIEW MAPS AND DOWNLOAD QR CODES
- PUBLIC INFORMATION & MEDIA



<b>Approved by Incident Controller:</b>	<b>Signed</b>	<b>Date/Time</b>
Name		2000 7/2/19



<b>1. Incident Name</b> <b>Pigeon Valley</b>	<b>2. Operational Period</b> Date 8&9/2/2019 Time 1900 - 0700	<b>SITUATION REPORT</b> RF201
<b>3. Location</b> Pigeon Rd, Eves Valley, Tasman	<b>4. Vegetation</b> Forest/Scrub/Grass/Slash/ Other:	
<b>6. Assessment</b> <p>A large scrub/ forest fire is currently burning estimated to be over 2100ha as at 0700hrs on 8<sup>th</sup> Feb 2019 (may have a recalculated total area by 1900hrs).</p> <p>Thursday afternoon we experienced a breakout in an area where the fire retardant and aerial support was not effective in containing the fire up. Fire spotting occurred in excess of 500m at times. Up until this has burnt approximately 415ha of heavy fuels (pine forest). The fire behaviour has been mainly in the north with some progression downslope. Perimeter growth for the day has not yet been calculated.</p> <p>Values at risk are life, and property.</p> <p>Local crews and heavy machinery successfully protected nearby residential properties under very difficult conditions on Thursday night. The fire has backed up on several structures close to the forest boundary to the east, but being protected by effective fire breaks which were established Thursday night.</p> <p>Evacuations operations have commenced for the town of Wakefield based on predicted rates of fire spread. If another breakout occurs and a front is generated. Evacuation trigger points were established with a 30 minute notification for Pigeon Valley and three hour notification for Wakefield. We were unable to identify trigger points for Wakefield with Police with adequate warning for effective evacuation. As a result it was jointly decided between FENZ that evacuation of the Wakefield residents which incrementally commenced this afternoon.</p> <p>Evacuations are still in place for the following areas while operations are still active.</p> <ul style="list-style-type: none"> <li>• Eves Valley,</li> <li>• Golden Hills Rd,</li> <li>• Redwood Valley Rd</li> <li>• Tea Pot Valley</li> <li>• Barton Lane</li> </ul> <p>Telecommunications site on the end of Cooks Rd (near Wakefield) are at risk with northerly wind. A mobile site are currently being installed near Wakefield so that the communications at Wakefield can be maintained in the event the current site is damaged. A telecommunications crew is working currently working to secure the asset.</p> <p>A new fire has started at Atawhai Road, a short distance north of Nelson township, at approximately 1400hrs. Fireline overhead, helicopters and ground crew have been assigned to this new start. Resources deployed are 5x helicopters, 4x urban and one rural have arrived on site.</p>		



## 7. Action taken

Current resources for fire management currently working on the vegetation fire (days shift) are

- 22 helicopters, two fixed wings plane.
- 18 vegetation crews, and 8 structure crews (141 personnel)
- 15 heavy machines (excavators and dozers).
- 42 incident management staff.

Due to the nature of the current weather conditions, the terrain, and the vegetation composition (extreme dryness of the vegetation), helicopter resources are targeting the breakout area on the southeast boundary bordering Wakefield and heavy machinery has established control lines on 85% of the boundary on sectors Zulu and Yankee.

Changes in fuel as the fire moves to pasture and to the contingency fire-breaking (on the northern end) will assist in suppressing this breakout. On the north western area, sector X-ray, machinery and feller bunchers are felling larger trees and shifting logs to enhance the fire break there in anticipation of the SE wind, which is forecasted again for tomorrow.

Fire observers in Wakefield and including one in helicopter are providing observation of areas which have potential for spotting in and around the Wakefield Township.

Black out work, machine fire breaking and hot spot targeting is continuing on the other parts of the fire ground.

Yesterday we established a No-Fly Zone over the fire ground, this will be in place until Monday 5pm. The No-Fly zone is to 3000m and 3km from the red zone.

We actioned one Drone Team available for overnight surveillance, and the USAR Drone Team is arriving tomorrow.

We have requested from R4 RCC additional structure crews and appliances, plus vegetation crews and other resources to facilitate rotation of crews for fatigue management.

A fire observer has been dispatched to the Atawhai Road fire.

**8. Factors,**

Extreme fire conditions. Limited natural water supply. Steep terrain. Highly flammable complex dense vegetation. Forecasted winds have been in place since 1100hrs of NE 20km, gusting to 35km/hr. The wind strength and smoke is proving challenging for aerial operations.

The forecasted increase to Relative Humidity has occurred and should benefit the firefighting operations as the day progresses.

**9. Predicted Incident Development**

Weather forecasts are being updated every two hours, so we always have current information.

Weather conditions over the next two days involves strengthening northerlies with predictions of wind gusts of up to N/NE 55km/hr predicted on Sunday.

Utilising forecasted conditions and the rates of spread experienced over recent days, we have established a worst case scenario, by rate of spread modelling; that a running fire front would reach the Wai-Iti river by 1900 hrs and there would be the possibility of a new fire run on the other side of the Pigeon Valley which would threaten a significant amount of structures on South Pigeon Valley Road.

**10. Prepared by:** [REDACTED]

**Date/Time:**

**Authorised by** [REDACTED] **(Incident Controller)**

1900 8<sup>th</sup> Feb 2019

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<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 8&9/2/2019 Time 1900 - 0700	<b>INCIDENT OBJECTIVES</b> RF202
<b>3. Overall Incident Objectives</b> <ol style="list-style-type: none"> <li>1. Ensure the safety of responders and public at all times during the incident</li> <li>2. Minimise the impact on structures, infrastructure, assets and values during the incident</li> <li>3. Minimise impact on environment, culture and historic values during the incident</li> <li>4. Ensure communication and information, liaison with stakeholders/ community/ public/ government bodies and affected parties is timely, meets standards and requirements at all times during the incident</li> <li>5. Report on costs on a daily basis by 1800</li> <li>6. Return community to homes/normal life as soon as practicable</li> <li>7. Investigate cause (including protect initial ignition site and evidence)</li> </ol>		
<b>4. Strategies to meet objectives</b> <ol style="list-style-type: none"> <li>1. Create a safety plan and safety briefing for all staff and contractors. Monitor fire behaviour and establish triggers and cordons for withdrawals and evacuation.</li> <li>2. Use media, trusted community channels and stakeholders to establish communications and engagements. Establish regular briefings and updates.</li> <li>3. Identify critical infrastructure, assets and values. Structures have structure protection crews and technical liaison where required. Water courses and dip sites identified with environmental protection.</li> <li>4. Cultural/Historical/environmental values identified on incident ground (Actual and projected)</li> <li>5. Assign fire investigation to determine cause</li> <li>6. Financial reporting established and continued</li> <li>7. Create a recovery plan with community and stakeholders to assist post incident. <ul style="list-style-type: none"> <li>• Consider operation delivery to minimise impacts in support of the recovery plan.</li> </ul> </li> </ol>		
<b>5. Specific operational tasks for this shift to meet objectives</b> <ul style="list-style-type: none"> <li>• Crew blacking out to 30m in 10m increments</li> <li>• Patrol, and monitor all fire edges</li> <li>• Heavy machinery to reinforce firebreaks and establish new lines identified in sectors.</li> <li>• Urban appliances tasked for structure protection.</li> </ul>		
<b>5. Prepared by:</b> ██████████	<b>Date/Time: 1900 7/2/19</b>	

1. Incident Name	2. Operational Period		ORGANISATION ASSIGNMENT	
	Date 8&9/2/2019 Time 1900 - 0700		RF203	
3. Incident Control			Phone	Radio Ch
Incident Controller	██████████ )			
	██████████ (NIMIT) (Emergency)		██████████	
Deputy IC				
Information Officer				
Safety Officer	██████████		██████████	
	██████████			
	██████████ (NIMIT) (Emergency)			
Liaison Officer				
4. Agency Representative - Emergency contacts			Phone	Radio Ch
Lead Agency	FENZ ██████████ PRFO		██████████	
Agency	Police ██████████			
Agency	██████████			
Agency	CDEM ██████████			
Agency	CDEM Duty Phone			
Agency	FENZ Urban Liason ██████████			
5. Planning/Intell Section - Emergency contacts			Phone	Radio Ch
Planning/Intell Manager	██████████		██████████	
Situations Unit	██████████			
Resources Unit	██████████			
6. Logistics Section			Phone	Radio Ch
Logistics Manager	██████████ (NIMIT)		██████████	
7. Operations Section			Phone	Radio Ch
Operations Manager	██████████		██████████	
Deputy Operations Manager				
	██████████ (Emergency)		██████████	
	██████████ (Emergency)			
	██████████ (Emergency)			
Division Alpha Commander	██████████			
Division Xray Commander	██████████			

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Division Yankee Commander	[REDACTED]	[REDACTED]	
Division Zulu Commander	[REDACTED]	[REDACTED]	
Division Rabbit Commander	[REDACTED]	[REDACTED]	
Division Atawhai Commander	[REDACTED]	[REDACTED]	
Air Division – Drone	[REDACTED]	[REDACTED]	
Air Division Commander	[REDACTED] (NMIT) (emergency)	[REDACTED]	
<b>8. Prepared by:</b> [REDACTED]		<b>Date/Time:</b> 1900 7/2/19	

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 8&9/2/2019 Time 1900 - 0700		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Alpha		<b>4. Description</b>			
<b>5. Division Commander</b>	<i>Affiliation</i>	<i>Phone</i>		<i>Radio Ch</i>	
██████████		██████████			
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
<i>Radio Ch</i>					
2 Dozers					
3 Excavators					
3 4px Crew					
<b>7. Division Assignment/Special Instructions</b>					
Machine staged for immediate response - Sharp Valley					
Crews blanking out to 30m in 10m increments					
Patrol and monitor all of Div Edge					
<ul style="list-style-type: none"> <li>• A1 Patrol to ford boundary and evaluate up ridge to A2 and liaise.</li> <li>• A2 – x2 patrol either way</li> </ul>					
Alpha 1 - Div break to Ford on Sharps Rd					
Alpha 2 – From ford on Sharps rd to Cuthill Johnsons Rd intersection (updated Div break)					
<b>8. Division Communications</b>					
		<i>Phone</i>		<i>Radio Ch</i>	
Operations Manager		██████████		██████████	
<b>9. Prepared By:</b> ██████████				<b>Date/Time</b>	

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 8&9/2/2019 Time 1900 - 0700		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Xray		<b>4. Description</b>			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>		<b>Radio Ch</b>	
██████████					
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
<i>Radio Ch</i>					
3x 4WD Tankers					
2x Bulk tanker					
3x 4px Crew					
1x Dozer					
<b>7. Division Assignment/Special Instructions</b>					
<ul style="list-style-type: none"> <li>• X1 To patrol, let fire come to edge and direct attack Dozer to clear Johnsons Rd from Cuthill Rd to Sunrise valley Rd at the forestry gate</li> <li>• X2 Patrol</li> <li>• X3 Monitor</li> </ul> <p>Xray 1 – Cuthill/Johnsons Red intersection (new Div break) to 5423000/1603000  Xray 2 - 5423000/1603000 to intersection of Redwood Valley Rd and Red Stage lane  Xray 3 - Redwood Valley Rd and Red Stage lane to Yankee div break</p>					
<b>8. Division Communications</b>				<b>Phone</b>	
Operations Manager ██████████				██████████	
<b>10. Prepared By:</b> ██████████				<b>Date/Time</b>	

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 8&9/2/2019 Time 1900 - 0700		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Yankee		<b>4. Description</b>			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>		<b>Radio Ch</b>	
██████████		██████████			
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
1x Dozers					
1x Urban Appliances					
3x 4px Crew					
<b>7. Division Assignment/Special Instructions</b>					
<ul style="list-style-type: none"> <li>• Y1 Mop up and patrol</li> <li>• Y2 Dozer build line TBD 1 Appliance to protect mill and associate structures</li> </ul> <p>Yankee 1 – South edge of mill to div break at Zulu Yankee 2 – Xray div break to south edge of the mill</p>					
<b>8. Division Communications</b>				<b>Phone</b>	
Operations Manager		██████████		██████████	
<b>11. Prepared By:</b>				<b>Date/Time</b>	
██████████					



<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 8&9/2/2019 Time 1900 - 0700		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Zulu		<b>4. Description</b>			
<b>5. Division Commander</b>	<i>Affiliation</i>	<i>Phone</i>		<i>Radio Ch</i>	
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
2x Dozers					
2x Excavators					
1x 4px Crew					
1x Bulk Tanker					
1x 4wd Tanker					
2x Smoke Chaser					
2x Urban Crew					
2x Rural Crew					
<b>7. Division Assignment/Special Instructions</b>					
Brush up firebreaks and establish new lines TBD					
<ul style="list-style-type: none"> <li>• Z1: Rural patrol Continue current line with HEQ onto 22 Smoke chaser with experienced crew monitor area west of Golf course, local knowledge critical.</li> <li>• Z2 Urban patrol for structure protection Teapot Valley and surround</li> </ul>					
Zulu 1 – Alpha div break to Barton Lane Zulu 2 – Barton lane to Yankee div break.					
<b>8. Division Communications</b>				<i>Phone</i>	
Operations Manager					
<b>12. Prepared By:</b>				<b>Date/Time</b>	



<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 8&9/2/2019 Time 1900 - 0700			<b>AIR OPERATIONS PLAN</b> RF208	
<b>3. Personnel and Communications</b>						
<b>Position</b>	<b>Name</b>	<b>Affiliation</b>	<b>Phone</b>	<b>Radio Chan</b>		
Air Div Commander	██████████ (Emergency)		██████████			
Air Division – Drone	██████████		██████████			
	██████████		██████████			
<b>4. Air Resource Assignments</b>						
<b>Pilot Name/ Company</b>	<b>Aircraft Type</b>	<b>Reg or Call sign</b>	<b>Assign- ment</b>	<b>Tactical Freq/Chan</b>	<b>Name</b>	<b>Telephone Numbers</b>
Interpine	RPAS / UAV	PINES1		Fire 4		██████████
<b>5. Location of Filling Points/Service Areas</b>						
<b>Name</b>			<b>Grid Reference</b>			
Heli base			-41.31777, 137.10987			
Fixed wing			41 22 39.9 S 173 05 04.6 E			
<b>6. Safety Notes / Hazards / Radio Coverage Limitations</b>						
<b>7. Air Operations Special Equip or Service</b> Drone operations are tasked to monitor sector Zulu and Yankee for fire movement with infrared						
<b>8. Prepared By:</b> ██████████				<b>Date/Time:</b> 1900 7/2/19		

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1. Incident Name		2. Operational Period		COMMUNICATIONS PLAN RF205	
Pigeon Valley		Date 8&9/2/2019 Time 1900 - 0700			
<b>3. Radio Channels</b>					
<i>Assigned To</i>	<i>Function</i>	<i>Channel</i>	<i>Frequency</i>	<i>System</i>	
Command		Waimea 1	152.55000 RX 154.33125 TX		
Division Alpha	Operational	Fire 1	143.82500		
Division Zulu	Operational	Fire 2	143.78750		
Division Yankie	Operational	Fire 3	140.92500		
Division Xray	Operational	Fire 1	143.82500		
Division Bravo	Operational	Fire 2	143.78750		
Air Ops -Heli	Operational	Fire 4	140.61250		
Air Ops – Fixed Wing	Operational	Fire 10	140.98750		
Emergency		Waimea 1	152.55000 RX 154.33125 TX		
Resources		Waimea 1	152.55000 RX 154.33125 TX		
FireCom		FireCom			
2 Hourly - Sitrep		OPSR2	Use mobile if difficult coms to FCP		
<b>4. Telephone</b>					
<i>Assigned To</i>	<i>Landline</i>	<i>Cell phone</i>	<i>Fax</i>	<i>Comments</i>	
Emergency		111			
Regional Command Centre (RCC)					
<b>6. Other (e.g. email, Satphone, etc)</b>					
Resources	<a href="mailto:resources@FENZNelsonIMT.com">resources@FENZNelsonIMT.com</a>				
Safety	<a href="mailto:safety@FENZNelsonIMT.com">safety@FENZNelsonIMT.com</a>				
Logistics	<a href="mailto:logistics@FENZNelsonIMT.com">logistics@FENZNelsonIMT.com</a>				
PIM	<a href="mailto:pim@FENZNelsonIMT.com">pim@FENZNelsonIMT.com</a>				
Planning	<a href="mailto:planning@FENZNelsonIMT.com">planning@FENZNelsonIMT.com</a>				
Forward Control Point ( FCP)	<a href="mailto:icu.nelson@fireemergency.nz">icu.nelson@fireemergency.nz</a>			[REDACTED]	
Situation / GIS / Intel	<a href="mailto:situation@FENZNelsonIMT.com">situation@FENZNelsonIMT.com</a>				
Operations	<a href="mailto:operations@FENZNelsonIMT.com">operations@FENZNelsonIMT.com</a>				
Photos and imagery	Join Facebook site; Pigeon Valley Fire - INTERNAL COMMS			<a href="https://www.facebook.com/groups/1924082991035550/">https://www.facebook.com/groups/1924082991035550/</a>	
6. Prepared by: [REDACTED]				Date/Time 1900 7/2/19	

<b>1. Incident Name</b> <b>Pigeon Valley</b>	<b>2. Operational Period</b> Date 8&9/2/2019 Time 1900 - 0700	<b>SAFETY PLAN</b> RF209
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**3. General Safety Points**

Everyone is to be signed in and out of the fire ground through the Incident Control Point for both safety check and payment records (Complete DTR's).

Maintain regular situation reports especially kestrel observations (containing all relevant information) via line supervisors.

LACES	Fire Orders	Watchouts
<b>L - Lookout(s)</b> <b>A – Awareness</b> – Anchor Point(s) <b>C – Communication(s)</b> <b>E – Escape Route(s)</b> <b>S – Safety Zone(s)</b>	<ol style="list-style-type: none"> <li>1. conditions and forecasts</li> <li>2. Know what your fire is doing at all times.</li> <li>3. Base all actions on current and expected fire behaviour of the fire.</li> <li>4. Identify escape routes and safety zones and make them known.</li> <li>5. <b>Post</b> lookouts when there is possible danger.</li> <li>6. <b>Stay</b> alert. Keep calm, Think clearly, act decisively.</li> <li>7. Maintain prompt communication with your crew/s, your supervisor and adjoining crews.</li> <li>8. Give clear instructions and ensure they are understood.</li> <li>9. Maintain control of your crew/s at all times.</li> <li>10. <b>Fight</b> fire aggressively having provided for safety first.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fire size is unknown (no size up).</li> <li>2. Unfamiliar territory</li> <li>3. Safety zones and escape routes not identified.</li> <li>4. Unfamiliar with weather and local factors influencing fire behaviour.</li> <li>5. No communications link with crew members or supervisor.</li> <li>6. Instructions and assignments not clear.</li> <li>7. Weather is getting hotter, drier and relative humidity dropping</li> <li>8. Wind increases and/or changes direction.</li> <li>9. Getting frequent spot fires across the line</li> <li>10. Working uphill or down wind of a fire</li> <li>11. Working on a steep slope</li> <li>12. Working in rugged terrain</li> <li>13. Can't see main fire</li> <li>14. In unburnt vegetation</li> <li>15. Walking through hot ashes</li> <li>16. Working alone</li> <li>17. Getting tired</li> <li>18. Working near power lines</li> <li>19. Working near machinery</li> <li>20. Working with aircraft</li> <li>21. Working around trees or spars</li> </ol>

**4. Specific Safety Points**

- All access points into fire are controlled. Only those authorized to enter and they must receive a briefing and be logged including time and point of access
- Public access managed by cordons
- Weather fire behaviour monitored for changes and communicated to crews. Use kestrels to gather weather data. Risk identified to crews.
- All crews to have adequate food, water, PPE to manage fatigue and hydration.
- Work rest periods enforced. Seek shade during rest period.
- Ensure nine-hour rest periods before returning to fire ground.
- Crews to have identified emergency escape routes and emergency plan in the event of harm. Meeting at pre-identified evacuation point once evacuated.
- All workers to ensure they are competent for the tasks and risks given.
- Air and ground crews to be isolated from risk areas during operations.
- Potential methane flares (Division Yankee) from Eves Valley Landfill. Avoid if possible.
- Avoid skid sites where stability of surface cannot be assured.
- Particular care in smoke, work in smoke and traveling in smoke.
- Ensure operational separation from Air-ops at forward command post
- Follow carpark signage at Forward command post
- Report all incidents and near misses to safety officer.
- Be sun smart, use hats and cover completely.

<b>5. Prepared By:</b> <span style="background-color: black; color: black;">[REDACTED]</span>	<b>Date/Time</b> 1900 7/2/19
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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 8&9/2/2019 Time 1900 - 0700			<b>MEDICAL PLAN</b> RF206			
<b>3. First Aid Station Name</b>		<b>Phone/Radio Channel</b>		<b>Paramedics available at Station</b>				
<i>Name</i>		<i>Location</i>						
Each Crew must have available one First aid Level 1 Certified		Each crew						
Nelson 91 Ambulance		Forward command post		Waimea 1		1 Paramedic and 1 EMT		
<b>4. Transportation Ambulance Service</b>		<b>Address</b>		<b>Phone/Radio Channel</b>		<b>Paramedics available with Ambulance</b>		
Ambulance St Johns		Closest unit		111		Yes		
<b>5. Hospitals</b>					<b>Travel Time</b>		<b>Burn Unit</b>	<b>Heli Pad</b>
<i>Hospital Name</i>		<i>Address</i>		<i>Phone</i>		<i>Road</i>	<i>Air</i>	
Nelson Public Emergency		Waimea Rd.		111		27m	4min	y
Hutt Hospital (Burn Unit)				111		n/a	40min	Y
<b>6. Special Emergency Procedures</b>								
St John will transport patients to whichever health facility is appropriate								
<b>7. Prepared By:</b> [REDACTED] Shift - Manager Nelson				<b>Date/Time</b> 1900 7/2/19				
<b>8. Reviewed by Safety Advisor:</b> [REDACTED]				<b>Date/Time</b> 1900 7/2/19				

<b>1. Incident Name</b> Pigeon Valley	Date 8&9/2/2019 Time 1900 - 0700	<b>Weather Forecast</b>
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**11 am – 6 pm Friday**

**Rainfall:** Nil.

**Sustained wind:** NE 10-15 km/h through to 6 pm.

**Wind gusts:** Gusts gradually increasing to around 35 km/h from near midday through to 6 pm.

**Temperature:** 17°C increasing to a maximum 20-21°C by early-to-mid-afternoon.

**Humidity:** Decreasing from near 60% early to 40-45% by early afternoon. Humidity then increases to 70-75% by 6 pm.

**6 pm Friday – 6 am Saturday**

**Rainfall:** Slight chance for a shower near 6 am. Amounts, if any, 2 mm or less.

**Sustained wind:** E gradually turning SW by 9pm, 10 km/h or less.

**Wind gusts:** Gusts up to 25 km/h through to 9 pm, then 15 km/h or less thereafter.

**Temperature:** Decreasing to near 13°C early morning.

**Humidity:** Increasing to near 95% after midnight.

**Outlook for Saturday:**

Chance of scattered rain showers around mid-day. Rainfall, if any, less than 2 mm.

Afternoon wind gusts up to 40 km/h possible.

Maximum temperature 22°C.

**Outlook for Sunday:**

Rainfall, if any, 1 mm or less.

Afternoon wind gusts up to 50 km/h possible.

Maximum temperature 23-24°C.

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## FIRE BEHAVIOUR FORECAST

<b>Fire name: Pigeon Road</b>				<b>Prediction for: 0800-1800 08 Feb-19</b>					
<b>Prepared by:</b> [REDACTED]				<b>Time and date issued:</b> 1400 07 Feb 19					
<b>Forecast no. 4</b>				Day Shift					
<i>Assumptions:</i>				<i>Friday's forecast</i>					
<b>Temp</b>	<b>RH</b>	<b>Wind</b>	<b>Slope *</b>	<b>FFMC</b>	<b>DMC</b>	<b>DC</b>	<b>ISI</b>	<b>BUI</b>	<b>FWI</b>
20	52	12	0	88	101	470	5.8	132	24

Rates of spread are the equilibrium rate of spread, not the build-up phase, with continuous fuel and similar fuel type.

**Fire Behaviour General:**

<b>Expected fire behaviour</b> – slope 0°	<b>Forecast</b> worst case – 28°C 45%RH slope 20° 1400-1800
<i>Fuel type: Mature Pine – 5m pruned</i>	<i>Fuel type: Mature Pine – 5m pruned</i>
Expect HF rate of spread of 50 m/hr HF Intensity 800 kw/m Flame lengths 1.5-2	Expect HF rate of spread of 200 m/hr HF Intensity 2100 kw/m Flame lengths 3 m
<i>Fuel type: Scrub/gorse 2m height</i>	<i>Fuel type: Scrub/ gorse 2m height</i>
Expect HF rate of spread of 1000 m/hr HF Intensity 10000 kw/m Flame lengths 6 m	Expect HF rate of spread of 3000 m/hr HF Intensity >10000 kw/m Flame lengths 13 m
<i>Fuel type: Grass-80% GC, 100% cover, 0.1m height</i>	<i>Fuel type: Ungrazed Grass -70% GC, 100% cover, 0.2m height</i>
Expect HF rate of spread of 200 m/hr HF Intensity 350 kw/m Flame lengths 1.2 m	Expect HF rate of spread of 600 m/hr HF Intensity 1150 kW/m Flame lengths 2 m
<b>Safety Considerations:</b>	
Head Fire intensity, and flank fire intensity exceed threshold for direct attack in gorse/ scrub fuels.	Head Fire intensity exceed threshold for direct attack in gorse and mature pine fuels, and flank fires in gorse. Flank fires intensity is now too high for ground crews
<b>Summary timeline:</b> Based on the Dovedale weather station and NIWA forecasting, Friday is predicting to have NE winds stronger than Thursday.	

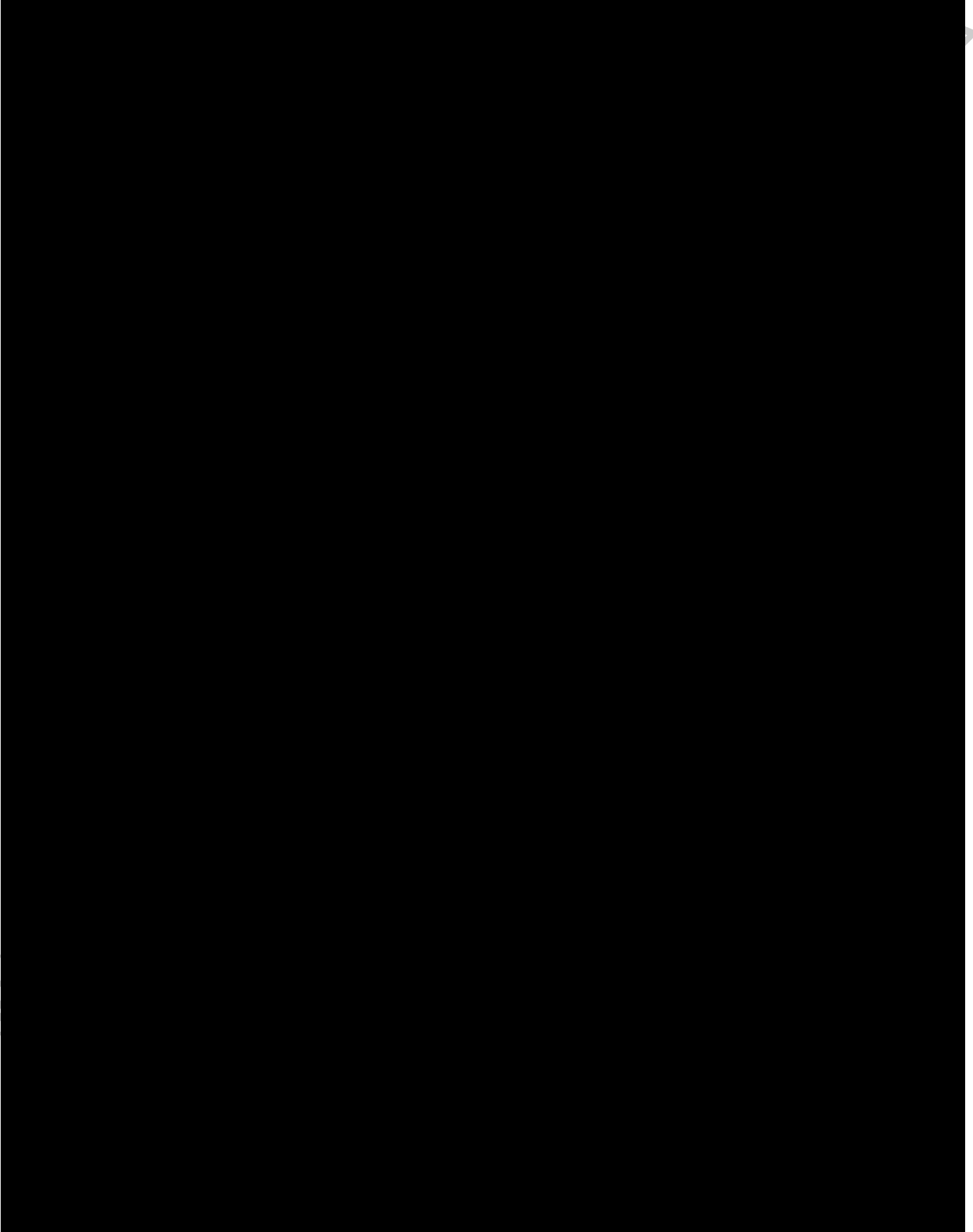
If prediction time is before 1200 NZST, use yesterday's noon daily FWI values; if after 1200 NZST, use today's FWI values.

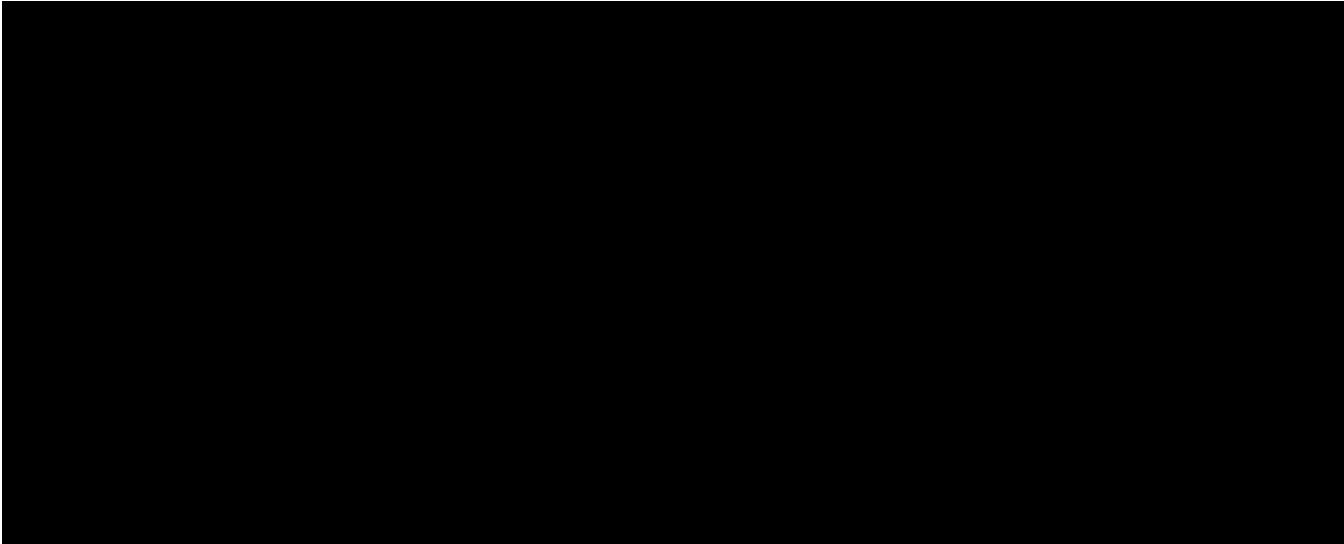
# Fire Type = Surface fire (S), Intermittent (I) (i.e., torching), or continuous Crown fire (C)



<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 8&9/2/2019 Time 1900 - 1900	<b>MAPS</b> RF
<b>3. Download Avenza PDF Maps, Scan the Following Codes to Access Digital Maps</b>		

**QR CODES FOR MAP DOWNLOAD**





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<b>1. Incident Name</b> Pigeon Valley Fire, Nelson	<b>3. Operational Period</b> 07 & 08/02/2019 – 1900 to 0700
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# Public Information Management Plan

## Overview of PIM response

The NIMT and FENZ PIM team is working to support the Nelson Tasman Civil Defence PIM team. Is it essential that the information coming in from the fire ground (with regards to FENZ operations) is collated by the NIMT Situation Unit and shared to the Civil Defence IMT - this is done through the PIM teams working collaboratively and assists in timely, accurate and relevant information to all stakeholders involved.

Update @ 1830hrs: We have been informed late this evening that the weather forecast for tomorrow indicates the potential for smoke to blow over the Nelson City area at approximately midday. Messaging around this health risk will need to be included in future communications to the public.

## NIMT PIM team – as at Thursday 7<sup>th</sup> February

- PIM Manager – [Redacted]
- PIM Manager 2IC - [Redacted]
- Media Manager - [Redacted]
- PIM Support – [Redacted]

## Social Media Manager, Community Liaison, Evac/Alerts – Civil Defence

The PIM Team roster is available from NIMT Logistics Manager. There is a number of personnel changes occurring from tomorrow afternoon with a handover period.

- PIM meetings for 07/02/2019**
- 10:30hrs – 1<sup>st</sup> Planning Meeting
  - 13:00hrs – Tactics Meeting (sit-in only)
  - 17:00hrs – 2<sup>nd</sup> Planning meeting & IAP Approval
  - Other informal meetings as required

## FENZ Stakeholders and Audience Groups

Organisation	Detail	Name	Contact Info
FENZ Org (forward system to ELT, NCC, OCE and Board)	Requires regular updates – committed to 4x updates daily at 0800hrs, 1100hrs,	RCC Christchurch	[Redacted] and cc, [Redacted] and <a href="mailto:Media@fireandemergency.nz">Media@fireandemergency.nz</a>

	1500hrs and 1900hrs		
Evacuated Residents	Community Meeting – first one held at 0900 on Thursday 7 <sup>th</sup> Feb. Next one potentially Sat 9 <sup>th</sup> Feb.	Various	Comms through social media, Civil Defence website, welfare team and media.
Interested Public	Local community (not evacuated) and wider	Various	Social media posts, Civil Defence website, FENZ website, media outlets
Cordons	Managed by Police, kept updated via PIM team		Police Liaison in IMT
IMT and Support Staff	Information to help their roles	*See structure charts	Briefings, meetings, conversations between the teams, Sit Reps
Media Outlets	Require full-time management and contact	*See media list	

Direct message distribution	Details of the specific sites or types
Websites	Nelson Tasman Civil Defence - <a href="http://www.nelsontasmancivildefence.co.nz/">http://www.nelsontasmancivildefence.co.nz/</a> Fire and Emergency NZ <a href="http://www.fireandemergency.nz">www.fireandemergency.nz</a>
Social media	Main channel: Nelson Tasman Civil Defence facebook page Tasman-Malborough Fire Area facebook page
Helpline	Welfare Helpline – 03 543 8400
Information points	Cordons (located as per map)
Community contacts/meetings	Community Meeting tentatively scheduled for Saturday 9 <sup>th</sup> Feb at 0900hrs at Appleby Fire Station.
Media message distribution	Specific stations or publications
Radio	*See media list <b>The Project (TV)</b> have requested for interviews with firefighters for tomorrow night's show (8 <sup>th</sup> Feb)
TV	
Newspapers	
Media	Schedule

Media briefing/conferences	Proposing Media Stand Up at 8am – TBC depending on interest overnight.
Media site visits	None scheduled currently.
Interviews	Checkpoint interviewing John at 10pm tonight (07/02/19)
<b>Message monitoring</b>	
Messaging being monitored by Civil Defence PIM Team and dealt with / passed on accordingly. FENZ PIM team are supporting for Media management and FENZ / Operational information requiring to be gathered and shared.	

Prepared by: [REDACTED]

Date: 7/2/19 1900hrs

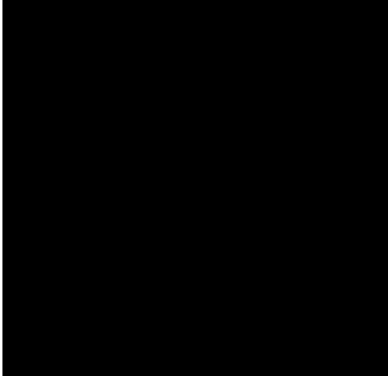
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<b>Incident Name</b>	<b>Operational Period</b>	<b>IAP COVER SHEET</b> RF199
Pigeon Valley	Date 9/2/2019 Time 0700 - 1900	

## INCIDENT ACTION PLAN

The items checked below are included in the incident Action Plan

- SITUATION REPORT
- INCIDENT OBJECTIVES
- ORGANISATIONAL LIST
- SECTOR ASSIGNMENT
- DIVISIONAL ASSIGNMENT
- AIR OPERATIONS PLAN
- COMMUNICATION PLAN
- SAFETY PLAN
- MEDICAL PLAN
- FIRE MAP
- WEATHER FORECAST AND MAP
- FIRE BEHAVIOUR FORECAST
- OVERVIEW MAPS AND DOWNLOAD QR CODES
- PUBLIC INFORMATION & MEDIA



<b>Approved by Incident Controller:</b>	<b>Signed</b>	<b>Date/Time</b>
Name		2000 8/2/19



<b>1. Incident Name</b> <b>Pigeon Valley</b>	<b>2. Operational Period</b> Date 9/2/2019 Time 0700 - 1900	<b>SITUATION REPORT</b> RF201
<b>3. Location</b> Pigeon Rd, Eves Valley, Tasman	<b>4. Vegetation</b> Forest/Scrub/Grass/Slash/ Other:	
<b>6. Assessment</b> <p>A large scrub/ forest fire is currently burning estimated to be over 2100ha as at 0700hrs on 8<sup>th</sup> Feb with a perimeter of 27km (may have a recalculated total area by 1900hrs).</p> <p>Thursday afternoon we experienced a breakout in an area where the fire retardant and aerial suppression wasn't effective in containing the fire up. Fire spotting occurred in excess of 500m at times. Up until this morning the breakout has burnt approximately 415ha of heavy fuels (pine forest). The fire behaviour has been mainly internal burning today with some progression downslope. Perimeter growth for the day has not yet been calculated.</p> <p>Values at risk are life, and property.</p> <p>Local crews and heavy machinery successfully protected nearby residential properties under very challenging fire conditions on Thursday night. The fire has backed up on several structures close to the forest boundary on the south east, but being protected by effective fire breaks which were established Thursday night.</p> <p>Evacuations operations have commenced for the town of Wakefield based on predicted rates of spread in the event another breakout occurs and a front is generated. Evacuation trigger points were established with a one hour notification for Pigeon Valley and three hour notification for Wakefield. We were unable to identify trigger points which provided the Police with adequate warning for effective evacuation. As a result it was jointly decided between Police, Civil Defence and FENZ that evacuation of the Wakefield residents which incrementally commenced this afternoon.</p> <p>Evacuations are still in place for the following areas while operations are still active.</p> <ul style="list-style-type: none"> <li>• Eves Valley,</li> <li>• Golden Hills Rd,</li> <li>• Redwood Valley Rd</li> <li>• Tea Pot Valley</li> <li>• Barton Lane</li> </ul> <p>Telecommunications site on the end of Cooks Rd (near Wakefield) are at risk with northerly wind. Two contingency mobile site are currently being installed near Wakefield so that the communications at Wakefield will be maintained in the event the current site is damaged. A telecommunications crew is working currently working around this asset to secure the asset.</p> <p>A new fire has started at Atawhai Road, a short distance north of Nelson township, at approximately 1400hrs. Fireline overhead, helicopters and ground crew have been assigned to this new start. Resources deployed are 5x helicopters, 4x urban and one rural have arrived on site.</p>		

## 7. Action taken

Current resources for fire management currently working on the vegetation fire (days shift) are

- 22 helicopters, two fixed wings plane.
- 18 vegetation crews, and 8 structure crews (141 personnel)
- 15 heavy machines (excavators and dozers).
- 42 incident management staff.

Due to the nature of the current weather conditions, the terrain, and the vegetation composition (extreme dryness of the vegetation), helicopter resources are targeting the breakout area on the southeast boundary bordering Wakefield and heavy machinery has established control lines on 85% of the boundary on sectors Zulu and Yankee.

Changes in fuel as the fire moves to pasture and to the contingency fire-breaking (on the northern end) will assist in suppressing this breakout. On the north western area, sector X-ray, machinery and feller bunchers are felling larger trees and shifting logs to enhance the fire break there in anticipation of the SE wind, which is forecasted again for tomorrow.

Fire observers in Wakefield and including one in helicopter are providing observation of areas which have potential for spotting in and around the Wakefield Township.

Black out work, machine fire breaking and hot spot targeting is continuing on the other parts of the fire ground.

Yesterday we established a No-Fly Zone over the fire ground, this will be in place until Monday 5pm. The No-Fly zone is to 3000m and 3km from the red zone.

We actioned one Drone Team available for overnight surveillance, and the USAR Drone Team is arriving tomorrow.

We have requested from R4 RCC additional structure crews and appliances, plus vegetation crews and other resources to facilitate rotation of crews for fatigue management.

A fire observer has been dispatched to the Atawhai Road fire.



**8. Factors,**

Extreme fire conditions. Limited natural water supply. Steep terrain. Highly flammable complex dense vegetation. Forecasted winds have been in place since 1100hrs of NE 20km, gusting to 35km/hr. The wind strength and smoke is proving challenging for aerial operations.

The forecasted increase to Relative Humidity has occurred and should benefit the firefighting operations as the day progresses.

**9. Predicted Incident Development**

Weather forecasts are being updated every two hours, so we always have current information.

Weather conditions over the next two days involves strengthening northerlies with predictions of wind gusts of up to N/NE 55km/hr predicted on Sunday.

Utilising forecasted conditions and the rates of spread experienced over recent days, we have established a worst case scenario, by rate of spread modelling; that a running fire front would reach the Wai-Iti river by 1900 hrs and there would be the possibility of a new fire run on the other side of the Pigeon Valley which would threaten a significant amount of structures on South Pigeon Valley Road.

**10. Prepared by:** [REDACTED]

**Date/Time:**

**Authorised by** [REDACTED] **(Incident Controller)**

1900 8<sup>th</sup> Feb 2019

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<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 9/2/2019 Time 0700 - 1900	<b>INCIDENT OBJECTIVES</b> RF202
<b>3. Overall Incident Objectives</b> <ol style="list-style-type: none"> <li>1. Ensure the safety of responders and public at all times during the incident</li> <li>2. Minimise the impact on structures, infrastructure, assets and values during the incident</li> <li>3. Minimise impact on environment, culture and historic values during the incident</li> <li>4. Ensure communication and information, liaison with stakeholders/ community/ public/ government bodies and affected parties is timely, meets standards and requirements at all times during the incident</li> <li>5. Report on costs on a daily basis by 1800</li> <li>6. Return community to homes/normal life as soon as practicable</li> <li>7. Investigate cause (including protect initial ignition site and evidence)</li> </ol>		
<b>4. Strategies to meet objectives</b> <ol style="list-style-type: none"> <li>1. Create a safety plan and safety briefing for all staff and contractors. Monitor fire behaviour and establish triggers and cordons for withdrawals and evacuation.</li> <li>2. Use media, trusted community channels and stakeholders to establish communications and engagements. Establish regular briefings and updates.</li> <li>3. Identify critical infrastructure, assets and values. Structures have structure protection crews and technical liaison where required. Water courses and dip sites identified with environmental protection.</li> <li>4. Cultural/Historical/environmental values identified on incident ground (Actual and projected)</li> <li>5. Assign fire investigation to determine cause</li> <li>6. Financial reporting established and continued</li> <li>7. Create a recovery plan with community and stakeholders to assist post incident. <ul style="list-style-type: none"> <li>• Consider operation delivery to minimise impacts in support of the recovery plan.</li> </ul> </li> </ol>		
Specific operational tasks for this shift to meet objectives <ul style="list-style-type: none"> <li>• Crew blacking out to 30m in 10m increments</li> <li>• Patrol, and monitor all fire edges, focusing on</li> <li>• Protection of identified structures and assets including cell phone towers, dairy farms and structures including Drones Road.</li> <li>• Continue to patrol and mop up</li> <li>• Establish an 'initial attack capability' for the incident.</li> </ul>		
<b>5. Prepared by:</b> ██████████	<b>Date/Time: 1900 8/2/19</b>	

<b>1. Incident Name</b>	<b>2. Operational Period</b> Date 9/2/2019 Time 0700 - 1900	<b>ORGANISATION ASSIGNMENT</b> RF203
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<b>3. Incident Control</b>		Phone	Radio Ch
Incident Controller	██████████ (NMIT)	██████████	
Deputy IC	██████████ (NMIT)		
Information Officer			
Safety Officer	██████████ (NMIT)		
Liaison Officer			

<b>4. Agency Representative</b>		Phone	Radio Ch
Lead Agency	FENZ ██████████	██████████	
Agency	Police ██████████		
Agency	██████████		
Agency	CDEM ██████████		
Agency	CDEM Duty Phone		
Agency	FENZ Urban Liason ██████████		

<b>5. Planning/Intell Section</b>		Phone	Radio Ch
Planning/Intell Manager	██████████	██████████	
Situations Unit	██████████		
	██████████ (FBAN)		
	██████████ (Observer)		
	██████████		
	██████████		
	██████████ (Intel)		
	██████████ (GIS)		
	██████████ (GIS)		
	██████████ (Observer)		
	██████████ (Observer)		
Resources Unit	██████████		
	██████████		
	██████████ (EoC)		
	██████████ (Caravan		
	Check in)		
Management Support Unit	██████████		
Information Unit			

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 9/2/2019 Time 0700 - 1900		<b>DIVISION ASSIGNMENT</b> <small>RF204a</small>	
<b>3. Division</b> Alpha		<b>4. Description</b> Point of ignition to Dove Saddle on Eder Rd			
<b>5. Division Commander</b>	<i>Affiliation</i>	<i>Phone</i>	<i>Radio Ch</i>		
██████████		██████████	Command: Fire Crew: Simplex		
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
				<i>Radio Ch</i>	
Bulldozer D7		TLC			
Excavator 20 T		TLC			
Tasman Smoke Chaser + 3 PX					
Hira Smoke Chaser + 3 PX					
Hira 5575 + 4 PX					
DOC Motueka +3 PX					
DOC Takaka + 8 PX					
DOC Nelson Lakes + 4 PX					
DOC South Marlborough + 4 PX					
JNL + 4 PX					
<p><b>A1 Dozer to widen the break following Rout Rd.</b> Smoke chaser and crews blacking out to 30 m in 10m increments along perimeter where possible and safe.</p> <p><b>A2 Feller buncher to continue removing large trees along the East side of Cut Hill Rd.</b></p> <p>Helicopters to support ground crews. Division Commanders to call Air Attack on Channel VHF 4 to request</p>					
<b>8. Division Communications</b>				<i>Phone</i>	<i>Radio Ch</i>
Operations Manager		██████████	██████████	Fire 1/Cellphone	
Air Division Commander		██████████	██████████	Fire 4/Cellphone	
<b>9. Prepared By:</b> ██████████				<b>Date/Time</b> 1900 8/2/19	

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 9/2/2019 Time 0700 - 1900		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Xray		<b>4. Description</b> Division from Cut hill/Eder Rd to CHH saw mill			
<b>5. Division Commander</b>	<i>Affiliation</i>	<i>Phone</i>	<i>Radio Ch</i>		
██████████		██████████	Fire 5		
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>	<i>Supervisor</i>		<i>Crews</i>	<i>Radio Ch</i>	
D155 Dozer					
Nicholson Tanker	13,000 l				
Excavators X2					
Appleby Tanker					
Smoke Chaser Wainui 3px					
NZDF RFA x7px					
Invercargill Crew + 5 PX					
AFM – ████████ 4px					
Otago Crew + 5 PX					
Hurunui Crew + 4 PX					
<p>X1 Mop up with ground crews. Patrol and continue widening Cut Hill Rd to Moutere saddle</p> <p>X2 Check and enhance perimeter around structures. Ground crews to mop up and patrol.</p> <p>X3 Monitor only, no operations required at this stage.</p> <p>Helicopters to support ground operations as required. Division Commanders to call Air attack on VHF 4 with requirements</p>					
<b>8. Division Communications</b>			<i>Phone</i>	<i>Radio Ch</i>	
Operations Manager	██████████		██████████	Fire 1/Cellphone	
Air Division Commander	██████████		██████████	Fire 4/Cellphone	
<b>10. Prepared By:</b> ██████████			<b>Date/Time</b> 1900 8/2/19		

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 9/2/2019 Time 0700 - 1900		<b>DIVISION ASSIGNMENT</b> <small>RF204a</small>	
<b>3. Division</b> Yankee		<b>4. Description</b> Bennets Road to CHH saw mill at Eves Valley			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>	<b>Radio Ch</b>		
██████████	Wakefield VFB	██████████	Fire 3		
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
<i>Radio Ch</i>					
2x Excavator 20T		Taylors			
Bulldozer D8		Taylors			
Brightwater 5026 + 3px					
Rural Tanker Downers + 1px					
Brightwater 5011 + 3px					
Stoke 221 + 5px					
Richmond 331 + 4px					
Ngatimoti + 4px					
Wellington 2 + 5 PX					
West Coast 2 + 5 PX And Smoke Chaser and Tanker					
Y1 Monitor existing fire break					
Y2 Clear defensible space around Eves Valley Mill with machinery Protect Mill and surrounding structures					
<b>8. Division Communications</b>				<b>Phone</b>	<b>Radio Ch</b>
Operations Manager		██████████	██████████	Fire 1/Cellphone	
Air Division Commander		██████████	██████████	Fire 4/Cellphone	
<b>11. Prepared By:</b> ██████████				<b>Date/Time</b> 1900 8/2/19	

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 9/2/2019 Time 0700 - 1900		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Zulu		<b>4. Description</b> Division from Cut hill/Eder Rd to CHH saw mill			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>	<b>Radio Ch</b>		
██████████		██████████	Fire 2		
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
<i>Radio Ch</i>					
4x Excavator 20T		TLC			
D65 Dozer		██████████			
Watertanker					
Tree and Forestry + 4px					
South Canterbury 10px					
Lake Rotoiti + 4 PX					
Upper Moutere 321 + 5 PX					
Wellington 1 + 5 PX					
<p><b>Z1 Protection of cell tower with aircraft only</b> Containment line from Pigeon Valley Rd to Barton Rd. Ground crew to prioritise protection of this area.</p> <p><b>Z2 Link containment line from Barton Rd to Tea Pot valley</b> Protection of dairy farm and structures Ground crews continue to mop up. Protection of structures near top of Eder Rd by extending defensible space with machinery and ground crews mopping up.</p> <p>Helicopters to support ground operations as required. Division Commanders to call Air attack on VHF 4 with requirements</p>					
<b>8. Division Communications</b>			<b>Phone</b>	<b>Radio Ch</b>	
Operations Manager		██████████	██████████	Fire 1/Cellphone	
Air Division Commander		██████████	██████████	Fire 4/Cellphone	
<b>12. Prepared By:</b> ██████████			<b>Date/Time</b> 1900 8/2/19		



<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 9/2/2019 Time 0700 - 1900		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Property Assessments		<b>4. Description</b> Functional division across Pigeon Valley Incident			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>		<b>Radio Ch</b>	
<b>6. Resources Assigned this Period</b>					
<b>Sector</b>		<b>Supervisor</b>		<b>Crews</b>	
<b>Radio Ch</b>					
		FENZ Liaison			
<b>7. Division Assignment/Special Instructions</b>					
<ol style="list-style-type: none"> <li>1. The property assessments are being planned and completed to ensure the safety of responders and residents during visitation and reoccupation. Fire danger risk assessments will be completed for each property, surrounding area and access routes. The risk assessments will include work on danger trees, condition of surrounding flammable fuels and built structures. These will be reviewed in relation to incident status and predicted weather.</li> <li>2. The assessments will include staff from Civil defence, FENZ and specialist contractors as required.</li> <li>3. Liaison communications will be maintained with division commanders at all times when on the incident ground</li> <li>4. Timeline for the assessments to be confirmed</li> </ol>					
<b>8. Division Communications</b>				<b>Phone</b>	
				<b>Radio Ch</b>	
Operations Manager		[REDACTED]		[REDACTED]	
Air Division Commander		[REDACTED]		[REDACTED]	
				Fire 1/Cellphone	
				Fire 4/Cellphone	
<b>13. Prepared By:</b> [REDACTED]				<b>Date/Time</b> 1900 8/2/19	

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 9/2/2019 Time 0700 - 1900		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Rabbit Island		<b>4. Description</b> Rabbit Island			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>		<b>Radio Ch</b>	
██████████		██████████		Fire 3	
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	<i>Radio Ch</i>
Forest owner to inspect site tomorrow. Planned thermal drone flight scheduled for tomorrow evening.					
<b>8. Division Communications</b>				<b>Phone</b>	<b>Radio Ch</b>
Operations Manager		██████████	██████████	██████████	Fire 1/Cellphone
Air Division Commander		██████████	██████████	██████████	Fire 4/Cellphone
<b>14. Prepared By:</b> ██████████				<b>Date/Time</b> 1900 8/2/19	

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 9/2/2019 Time 0700 - 1900		<b>DIVISION ASSIGNMENT</b> <small>RF204a</small>	
<b>3. Division</b> Atawhai		<b>4. Description</b>			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>		<b>Radio Ch</b>	
██████████	FENZ	██████████			
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>	<i>Supervisor</i>		<i>Crews</i>		<i>Radio Ch</i>
<b>7. Division Assignment/Special Instructions</b>					
Dozer to create fire line around residences					
Ground crews hot spotting and blackening.					
<b>8. Division Communications</b>					
Operations Manager			<i>Phone</i>	<i>Radio Ch</i>	
_____					
<b>15. Prepared By:</b> ██████████			<b>Date/Time</b> 1900 8/2/2019		

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<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 9/2/2019 Time 0700 - 1900	<b>AIR OPERATIONS PLAN</b> RF208
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3. Personnel and Communications				
Position	Name	Affiliation	Phone	Radio Chan
Air Div Commander	[REDACTED]			Fire 4
Air Attack Supervisor				
Air Support Supervisor				
Lead Helicopter Pilot				
Lead Fixed-Wing Pilot				

4. Air Resource Assignments						
Pilot Name/ Company	Aircraft Type	Reg or Call sign	Assign- ment	Tactical Freq/Chan	Name	Telephone Numbers
Becks	UH-1	HHF		Fire 4	[REDACTED]	
Becks	UH-1	HHB		Fire 4		
Helicharter	500D	HXX		Fire 4		
Garden City Heli	B3	IHL		Fire 4		
Garden City Heli	EC130	IGF		Fire 4		
Garden City Heli	BK	IVB		Fire 4		
Reid Heli	B2	HPE		Fire 4		
Reid Heli	FX2	HEX		Fire 4		
Reid Heli	B2	IOR		Fire 4		
Southern Heli Lift	UH-1L	HUE		Fire 4		
Marlborough Heli	Jetranger	HJI		Fire 4		
Marlborough Heli	Long Ranger	HTA		Fire 4		
Skyworks	B3	HWW		Fire 4		
Amuri Heli	FX2	HJM		Fire 4		
Anderson	B2	HKA		Fire 4		
Independent Heli	EC130	IWS		Fire 4		
Christchurch Heli	B2	HNC		Fire 4		
Wanaka Heli	B2	HFF		Fire 4		
Mt Hutt Heli	BA	HYS		Fire 4		
Heliventures	B2	IER		Fire 4		
Murchison Heli	BA	ILW		Fire 4		
[REDACTED]	Cresco			Fire 4		
[REDACTED]	Airtractor			Fire 4		
Interpine	RPAS / UAV	PINES1		Fire 4		

5. Location of Filling Points/Service Areas	
Name	Grid Reference
Heli base	-41.31777, 137.10987
Fixed wing	41 22 39.9 S 173 05 04.6 E

**6. Safety Notes / Hazards / Radio Coverage Limitations**

**7. Air Operations Special Equip or Service**

- Retardent filling crew (Fixed Wing) - [REDACTED]
- Bryant Earthworks - [REDACTED]
  - 2x dip trucks
  - 1x dip truck and trailer
  - 5x support tankers

**8. Prepared By:** [REDACTED]

**Date/Time:** 1900 8/2/19

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<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b>	<b>COMMUNICATIONS PLAN</b> RF205
	Date 9/2/2019 Time 0700 - 1900	

<b>3. Radio Channels</b>				
<i>Assigned To</i>	<i>Function</i>	<i>Channel</i>	<i>Frequency</i>	<i>System</i>
Command		Waimea 1	152.55000 RX 154.33125 TX	
Division Alpha	Operational	Fire 1	143.82500	
Division Zulu	Operational	Fire 2	143.78750	
Division Yankee	Operational	Fire 3	140.92500	
Division Xray	Operational	Fire 1	143.82500	
Air Ops -Heli	Operational	Fire 4	140.61250	
Air Ops – Fixed Wing	Operational	Fire 10	140.98750	
Emergency		Waimea 1	152.55000 RX 154.33125 TX	
Resources		Waimea 1	152.55000 RX 154.33125 TX	
FireCom		FireCom		
2 Hourly - Sitrep		OPSR2	Use mobile if difficult coms to FCP	

<b>4. Telephone</b>				
<i>Assigned To</i>	<i>Landline</i>	<i>Cell phone</i>	<i>Fax</i>	<i>Comments</i>
Emergency		111		
Regional Command Centre (RCC)				

<b>6. Other (e.g. email, Satphone, etc)</b>		
Resources	<a href="mailto:resources@FENZNelsonIMT.com">resources@FENZNelsonIMT.com</a>	
Safety	<a href="mailto:safety@FENZNelsonIMT.com">safety@FENZNelsonIMT.com</a>	
Logistics	<a href="mailto:logistics@FENZNelsonIMT.com">logistics@FENZNelsonIMT.com</a>	
PIM	<a href="mailto:pim@FENZNelsonIMT.com">pim@FENZNelsonIMT.com</a>	
Planning	<a href="mailto:planning@FENZNelsonIMT.com">planning@FENZNelsonIMT.com</a>	
Forward Control Point ( FCP)	<a href="mailto:icu.nelson@fireemergency.nz">icu.nelson@fireemergency.nz</a>	██████████
Situation / GIS / Intel	<a href="mailto:situation@FENZNelsonIMT.com">situation@FENZNelsonIMT.com</a>	
Operations	<a href="mailto:operations@FENZNelsonIMT.com">operations@FENZNelsonIMT.com</a>	
Photos and imagery	Join Facebook site; Pigeon Valley Fire - INTERNAL COMMS	<a href="https://www.facebook.com/groups/1924082991035550/">https://www.facebook.com/groups/1924082991035550/</a>

<b>6. Prepared by:</b> ██████████	<b>Date/Time</b> 1900 8/2/19
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<b>1. Incident Name</b>	<b>2. Operational Period</b> Date 9/2/2019
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**3. General Safety Points**

Everyone is to be signed in and out of the fire ground through the Incident Control Point for both safety check and payment records (Complete DTR's).

Maintain regular situation reports especially kestrel observations (containing all relevant information) via line supervisors.

LACES	Fire Orders	Watchouts
<p><b>L</b> - Lookout(s)  <b>A</b> – Awareness                      – Anchor Point(s)  <b>C</b> – Communication(s)  <b>E</b> – Escape Route(s)  <b>S</b> – Safety Zone(s)</p>	<ol style="list-style-type: none"> <li>1. conditions and forecasts</li> <li>2. Know what your fire is doing at all times.</li> <li>3. Base all actions on current and expected fire behaviour of the fire.</li> <li>4. Identify escape routes and safety zones and make them known.</li> <li>5. <b>Post</b> lookouts when there is possible danger.</li> <li>6. <b>Stay</b> alert. Keep calm, Think clearly, act decisively.</li> <li>7. Maintain prompt communication with your crew/s, your supervisor and adjoining crews.</li> <li>8. Give clear instructions and ensure they are understood.</li> <li>9. Maintain control of your crew/s at all times.</li> <li>10. Fight fire aggressively having provided for safety first.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fire size is unknown (no size up).</li> <li>2. Unfamiliar territory</li> <li>3. Safety zones and escape routes not identified.</li> <li>4. Unfamiliar with weather and local factors influencing fire behaviour.</li> <li>5. No communications link with crew members or supervisor.</li> <li>6. Instructions and assignments not clear.</li> <li>7. Weather is getting hotter, drier and relative humidity dropping</li> <li>8. Wind increases and/or changes direction.</li> <li>9. Getting frequent spot fires across the line</li> <li>10. Working uphill or down wind of a fire</li> <li>11. Working on a steep slope</li> <li>12. Working in rugged terrain</li> <li>13. Can't see main fire</li> <li>14. In unburnt vegetation</li> <li>15. Walking through hot ashes</li> <li>16. Working alone</li> <li>17. Getting tired</li> <li>18. Working near power lines</li> <li>19. Working near machinery</li> <li>20. Working with aircraft</li> <li>21. Working around trees or spars</li> </ol>

**4. Specific Safety Points**

- All access points into fire are controlled. Only those authorized to enter and they must receive a briefing and be logged including time and point of access
- Public access managed by cordons
- Weather fire behaviour monitored for changes and communicated to crews. Use kestrels to gather weather data. Risk identified to crews.
- All crews to have adequate food, water, PPE to manage fatigue and hydration.
- Work rest periods enforced. Seek shade during rest period.
- Ensure nine-hour rest periods before returning to fire ground.
- Crews to have identified emergency escape routes and emergency plan in the event of harm. Meeting at pre-identified evacuation point once evacuated.
- All workers to ensure they are competent for the tasks and risks given.
- Air and ground crews to be isolated from risk areas during operations.
- Potential methane flares (Division Yankee) from Eves Valley Landfill. Avoid if possible.
- Avoid skid sites where stability of surface cannot be assured.
- Particular care in smoke, work in smoke and traveling in smoke.
- Ensure operational separation from Air-ops at forward command post
- Follow carpark signage at Forward command post
- Report all incidents and near misses to safety officer.
- Be sun smart, use hats and cover completely.

**5. Prepared By:** [REDACTED]

**Date/Time** 1900 8/2/19

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 8/2/2019 Time 0700-1900			<b>MEDICAL PLAN</b> RF206				
<b>3. First Aid Station</b> <i>Name</i>		<i>Location</i>		<i>Phone/Radio Channel</i>		<i>Paramedics available at Station</i>			
Each Crew must have available one First aid Level 1 Certified		Each crew							
Nelson 91 Ambulance		Forward command post		Waimea 1		1 Paramedic and 1 EMT			
<b>4. Transportation</b> <i>Ambulance Service</i>		<i>Address</i>		<i>Phone/Radio Channel</i>		<i>Paramedics available with Ambulance</i>			
Ambulance St Johns		Closest unit		111		Yes			
<b>5. Hospitals</b> <i>Hospital Name</i>		<i>Address</i>		<i>Phone</i>		<i>Travel Time</i>		<i>Burn Unit</i>	<i>Heli Pad</i>
						<i>Road</i>		<i>Air</i>	
Nelson Public Emergency		Waimea Rd.		111		27m		4min	y
Hutt Hospital (Burn Unit)				111		n/a		40min	Y
<b>6. Special Emergency Procedures</b>									
St John will transport patients to whichever health facility is appropriate									
<b>7. Prepared By:</b> [REDACTED] Shift - Manager Nelson					<b>Date/Time</b> 1900 8/2/19				
<b>8. Reviewed by Safety Advisor:</b> [REDACTED]					<b>Date/Time</b> 1900 8/2/19				



<b>1. Incident Name</b> Pigeon Valley	<b>3. Operational Period</b> Date 9/2/2019 Time 0700 - 1900	<b>Weather Forecast</b>
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**4 pm Friday – 6 am Saturday**

**Rainfall:** Slight chance for a shower. Amounts, if any, 1 mm or less.

**Sustained wind:** Currently NE, turning more E by 6pm and then gradually turning SW by 9pm, 10 km/h or less.

**Wind gusts:** Gusts up to 35 km/h through to 8 pm, then 15 km/h or less thereafter.

**Temperature:** Currently 19 °C, decreasing to near 13°C early morning.

**Humidity:** 60% increasing to near 95% after midnight.

**6 am – 6 pm Saturday**

**Rainfall:** Light showers possible throughout forecast period. Total rainfall expected to be 2mm or less.

**Sustained wind:** Light and variable, less than 10 km/h. W-SW in the morning becoming E-NE by 1pm through to 6pm.

**Wind gusts:** Gusts around 10 km/h at 6am gradually increasing to up to 30 km/h by 6pm. Less wind than on Friday overall.

**Temperature:** A maximum of 20-21°C by early-to-mid-afternoon.

**Humidity:** 90% decreasing to 70% by 6pm.

**Outlook for Sunday:**

Rainfall, if any, 1 mm or less.

Afternoon wind gusts up to 40 km/h possible.

Maximum temperature 22-23°C.

**Outlook for Monday:**

Afternoon showers possible

Afternoon wind gusts up to 40 km/h possible.

Maximum temperature 23-24°C.

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## FIRE BEHAVIOUR FORECAST

<b>Fire name: Pigeon Road</b>				<b>Prediction for: 0800-1800 09 Feb-19</b>					
<b>Prepared by:</b> ██████████				<b>Time and date issued:</b> 1300 8th Feb 19					
<b>Forecast no. 4</b>				Day Shift					
<i>Assumptions: Dovedale weather station</i>				<i>Saturday's forecast</i>					
<b>Temp</b>	<b>RH</b>	<b>Wind</b>	<b>Slope *</b>	<b>FFMC</b>	<b>DMC</b>	<b>DC</b>	<b>ISI</b>	<b>BUI</b>	<b>FWI</b>
22	68	10	0	86	102	477	4.2	133	19

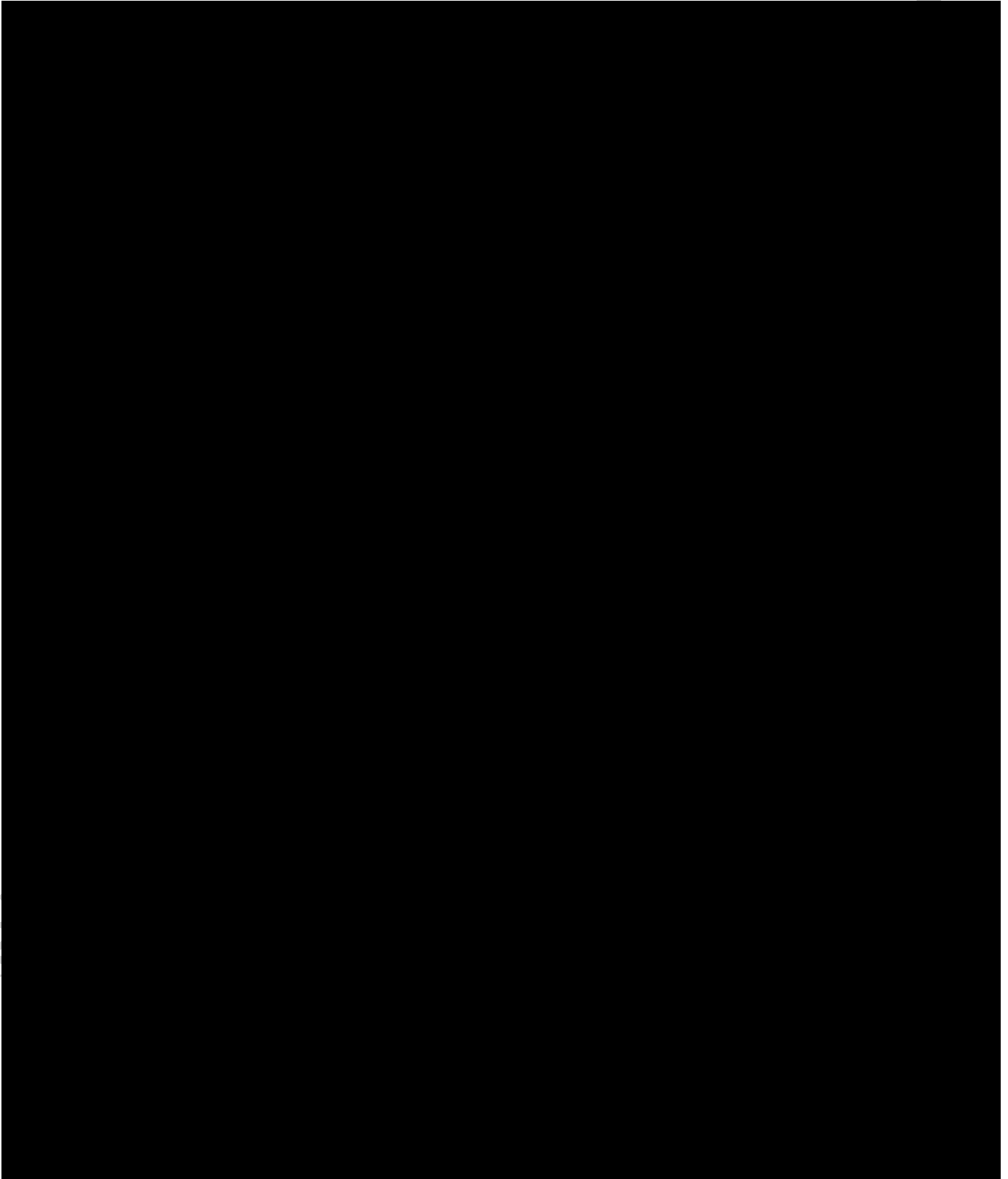
Rates of spread are the equilibrium rate of spread, not the build-up phase, with continuous fuel and similar fuel type.

### Fire Behaviour General:

<p><b>Expected fire behaviour</b> – slope 0° (expected fire front)</p>	<p><b>Forecast</b> worst case – 28°C 45%RH slope 20° 1400-1800</p>
<p><i><b>Fuel type:</b> Forest/Scrub/gorse mix</i></p>	<p><i><b>Fuel type:</b> Forest/Scrub/ gorse mix</i></p>
<p>Expect HF rate of spread of 1000 m/hr HF Intensity 10000 kw/m Flame lengths 6 m</p>	<p>Expect HF rate of spread of 3000 m/hr HF Intensity &gt;10000 kw/m Flame lengths 13 m</p>
<p><i><b>Fuel type:</b> Grass-80% GC, 100% cover, 0.1m height</i></p>	<p><i><b>Fuel type:</b> Ungrazed Grass -70% GC, 100% cover, 0.2m height</i></p>
<p>Expect HF rate of spread of 200 m/hr HF Intensity 380 kw/m Flame lengths 1.3 m</p>	<p>Expect HF rate of spread of 600 m/hr HF Intensity 1150 kW/m Flame lengths 2 m</p>
<p><b>Safety Considerations:</b></p>	
<p>Head Fire intensity, and flank fire intensity exceed threshold for direct attack in forest/ gorse/ scrub fuels.</p>	<p>Head Fire intensity exceed threshold for direct attack in gorse and mature pine fuels, and flank fires in gorse. Flank fires intensity is now too high for ground crews</p>
<p>Based on the Dovedale weather station and NIWA forecasting.</p>	

<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 9/2/2019 Time 0700-1900	<b>MAPS</b> RF
<b>3. Download Avenza PDF Maps, Scan the Following Codes to Access Digital Maps</b>		

**QR CODES FOR MAP DOWNLOAD**





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<b>1. Incident Name</b> Pigeon Valley Fire, Nelson	<b>2. Operational Period</b> 09/02/2019 – 0700 to 1900
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# Public Information Management Plan

## Overview of PIM response

The NIMT and FENZ PIM team is working to support the Nelson Tasman Civil Defence PIM team. Is it essential that the information coming in from the fire ground (with regards to FENZ operations) is collated by the NIMT Situation Unit and shared to the Civil Defence IMT - this is done through the PIM teams working collaboratively and assists in timely, accurate and relevant information to all stakeholders involved.

Update @ 1830hrs: We have been informed late this evening that the weather forecast for tomorrow indicates the potential for smoke to blow over the Nelson City area at approximately midday. Messaging around this health risk will need to be included in future communications to the public.

## NIMT PIM team – as at Thursday 7<sup>th</sup> February

PIM Manager – [REDACTED]

PIM Manager 2IC - [REDACTED]

Media Manager - [REDACTED]

PIM Support – [REDACTED]

## Social Media Manager, Community Liaison, Evac/Alerts – Civil Defence

The PIM Team roster is available from NIMT Logistics Manager. There is a number of personnel changes occurring from tomorrow afternoon with a handover period.

## PIM meetings for 07/02/2019

10:30hrs – 1<sup>st</sup> Planning Meeting

13:00hrs – Tactics Meeting (sit-in only)

17:00hrs – 2<sup>nd</sup> Planning meeting & IAP Approval

Other informal meetings as required

## FENZ Stakeholders and Audience Groups

Organisation	Detail	Name	Contact Info
FENZ Org (forward system to ELT, NCC, OCE and Board)	Requires regular updates – committed to 4x updates daily at 0800hrs, 1100hrs,	RCC Christchurch	[REDACTED] and cc, [REDACTED] [REDACTED] and <a href="mailto:Media@fireandemergency.nz">Media@fireandemergency.nz</a>

	1500hrs and 1900hrs		
Evacuated Residents	Community Meeting – first one held at 0900 on Thursday 7 <sup>th</sup> Feb. Next one potentially Sat 9 <sup>th</sup> Feb.	Various	Comms through social media, Civil Defence website, welfare team and media.
Interested Public	Local community (not evacuated) and wider	Various	Social media posts, Civil Defence website, FENZ website, media outlets
Cordons	Managed by Police, kept updated via PIM team		Police Liaison in IMT
IMT and Support Staff	Information to help their roles	*See structure charts	Briefings, meetings, conversations between the teams, Sit Reps
Media Outlets	Require full-time management and contact	*See media list	

Direct message distribution	Details of the specific sites or types
Websites	Nelson Tasman Civil Defence - <a href="http://www.nelsontasmancivildefence.co.nz/">http://www.nelsontasmancivildefence.co.nz/</a> Fire and Emergency NZ <a href="http://www.fireandemergency.nz">www.fireandemergency.nz</a>
Social media	Main channel: Nelson Tasman Civil Defence facebook page Tasman-Malborough Fire Area facebook page
Helpline	Welfare Helpline – 03 543 8400
Information points	Cordons (located as per map)
Community contacts/meetings	Community Meeting tentatively scheduled for Saturday 9 <sup>th</sup> Feb at 0900hrs at Appleby Fire Station.
Media message distribution	Specific stations or publications
Radio	*See media list <b>The Project (TV)</b> have requested for interviews with firefighters for tomorrow night's show (8 <sup>th</sup> Feb)
TV	
Newspapers	
Media	Schedule

Media briefing/conferences	Proposing Media Stand Up at 8am – TBC depending on interest overnight.
Media site visits	None scheduled currently.
Interviews	Checkpoint interviewing John at 10pm tonight (07/02/19)
<b>Message monitoring</b>	
Messaging being monitored by Civil Defence PIM Team and dealt with / passed on accordingly. FENZ PIM team are supporting for Media management and FENZ / Operational information requiring to be gathered and shared.	

Prepared by: [REDACTED]

Date: 8/2/19 1900hrs

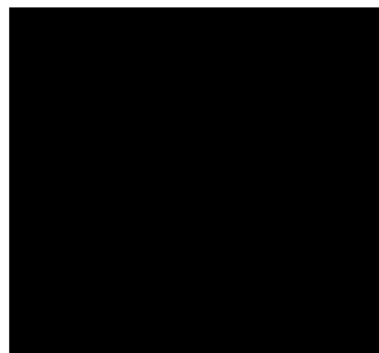
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<b>Incident Name</b>	<b>Operational Period</b>	<b>IAP COVER SHEET</b> RF199
Pigeon Valley	Date 9&10/2/2019	
	Time 1900 – 0700	

## INCIDENT ACTION PLAN

The items checked below are included in the incident Action Plan

- SITUATION REPORT – @ 1700
- INCIDENT OBJECTIVES @1400
- ORGANISATIONAL LIST
- SECTOR ASSIGNMENT
- DIVISIONAL ASSIGNMENT
- COMMUNICATION PLAN
- SAFETY PLAN
- MEDICAL PLAN
- FIRE MAP
- WEATHER FORECAST AND MAP
- FIRE BEHAVIOUR FORECAST
- OVERVIEW MAPS AND DOWNLOAD QR CODES
- PUBLIC INFORMATION & MEDIA



<b>Approved by Incident Controller:</b>	<b>Signed</b>	<b>Date/Time</b>
Name		1900 9/2/19





<b>1. Incident Name</b> <b>Pigeon Valley</b>	<b>2. Operational Period</b> Date 9/2/2019 Time 0700 - 1900	<b>SITUATION REPORT</b> RF201
<b>3. Location</b> Pigeon Rd, Eves Valley, Tasman	<b>4. Vegetation</b> Forest/Scrub/Grass/Slash/ Other:	
<p><b>Latest information as at 1400 9/2/2019:</b> Fire activity has been low through the morning with crews focussing on hot spots and strengthening containment lines. Some air support was needed in the Redwood area to take the fire intensity out of some gully areas. Extra machinery is now putting in new control lines closer to Wakefield through the forest area. In the Atawhai area there has been increased hot spot activity as the heat of the day increases along with the sea breeze coming in. A clear perimeter has been established.</p> <p>A low intensity fire controlled burn is being considered in understorey in north western (X-Ray Div) to bring the burnt area out to the containment lines. This will aid our goal of overall containment of the fire and may help speed return of residents to this area. However if successful would greatly reduce future risk in this area. Detailed fire weather and behaviour has now been modelled for this section from 1300-1800 today, to evaluate risk and benefit, with an Options Analysis on tactics is being prepared, consultation with the Forest Owner is being undertaken and a media plan is being prepared.</p> <p>Weather conditions are reaching their peak for the day and are in line with those predicted. We are hoping the do not exceed predictions. High RH and low temps will continue through to Sunday, with a daily regular wind shift pattern of morning SW transitioning to NE in the afternoon. The potential for N/NE gusting 50km/hr localised for Sunday is a very high risk and will need to be monitored closely.</p> <p>Current resources working on the vegetation fire (day shift) are</p> <ul style="list-style-type: none"> <li>- 23 helicopters, two fixed wings plane, 1 drone team</li> <li>- 18 vegetation crews, and 11 structure crews (151 personnel)</li> <li>- 21 heavy machines (excavators and dozers) + additional 2 added at 0800hrs</li> <li>- 47 incident management staff.</li> </ul>		

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## 6. Assessment

A large scrub/ forest fire is currently burning estimated to be over 2200ha as at 0700hrs on 9<sup>th</sup> Feb with a perimeter of 25km having extended overnight in the primarily in the pigeon valley area and north western boundary.

Thursday afternoon there was a breakout in an area where the fire retardant and aerial suppression wasn't effective in containing the fire. Fire spotting occurred in excess of 500m at times. Up until this morning this breakout has burnt approximately 515ha of heavy fuels (pine forest). The fire behaviour was mainly internal burning throughout Friday, but has extended late evening and throughout the night along a 800m section north of Haytons Rd as the fire progressed upslope. Fire intensity has risen 0530hrs 9 Feb, and machinery and ground crews have focused much of the overnight activity on this 800m fire line. Drone infrared operations were used throughout the night to assist ground operations.

Values at risk are life, and property.

Local crews and heavy machinery successfully protected nearby residential properties under very challenging fire conditions on Thursday. The fire has backed up on several structures close to the forest boundary on the south east, but are being protected by effective fire breaks which were established Thursday night. Machinery fire control lines now extend around 90% of the Sectors Zulu and Yankee.

Evacuations operations were conducted Friday across Wakefield based on predicted rates of spread in the event another breakout occurs and a front is generated. This was jointly decided between Police, Civil Defence and FENZ that evacuation of the Wakefield residents which incrementally commenced Friday afternoon. With the suppression effort the arrival of the fire at the Evacuation trigger points was delayed, with the fire reaching this point at 0030hr Sat 9 Feb at night when favourable wind and weather conditions helped slow further progression.

A huge effort has been invested in this area today to allow this part of the fire to quietly burn down hill to the riverflats. To date we have been successful in extinguishing the fire as it comes out of the pine plantation into the scrub and grassland.

Telecommunications site on the end of Cooks Rd (near Wakefield) are at risk with northerly wind. Two contingency mobile site are currently being installed near Wakefield so that the communications at Wakefield will be maintained in the event the current site is damaged.

The fire that started yesterday afternoon at Atawhai Road Fire.

Overhead, helicopters and ground crew were assigned to this fire and resources deployed were 5x helicopter arrived on site.

As of 0730 this is still active with smoke rising from the site and further aircraft has been dispatched to site this morning. Fire confirmed at 9.6ha 1.6km perimeter and is under control with monitoring.

Rabbit Island confirmed at 3ha 650m perimeter and no longer staffed, but fire observers are monitoring. This will be flown for hotspots using infrared drones Sat night shift.

## 7. Action taken

Current resources for fire management currently working on the vegetation fire (days shift) are

- 23 helicopters, two fixed wings plane, 1 drone team
- 18 vegetation crews, and 11 structure crews (151 personnel)
- 21 heavy machines (excavators and dozers) + additional 2 added at 0800hrs
- 47 incident management staff.

Helicopter resources continue targeting the breakout area on the southeast boundary bordering Wakefield and heavy machinery has established control lines on 95% of the boundary on sectors Zulu and Yankee. The fireline established was jumped at 0530hrs, and a secondary containment lines is being constructed by fellerbunchers, and heavy machinery. Ground resources in this sector are also focused on the 800m fireline of active fire intensity.

Felling machinery underway around the Eve's Valley mill, removing Euc trees.

Machinery and feller bunchers will continue are felling larger trees, shifting logs, and extending a contingency control line to enhance the fire break there in anticipation of the E wind, which is forecasted for today on the western fire boundary. Fall back lines on the western boundary have had significant strengthening with overnight work.

Fire observers continue working throughout fire grounds including providing helicopter observation of areas which have potential for spotting.

Black out work, machine fire breaking and hot spot targeting is continuing on the other parts of the fire ground.

Thursday we established a No-Fly Zone over the fire ground, this will be in place until Monday 5pm. The No-Fly zone is to 3000m and 3km from the red zone.

3 drone teams will survey the fire lines overnight Saturday to look at extent of containment lines for updates Sunday morning.

Additional structure crews and appliances, plus vegetation crews and other resources to facilitate rotation of crews for fatigue management.

A fire observer will also monitor the Atawhai Road fire.

## 8. Factors,

Extreme fire conditions. Limited natural water supply. Steep terrain. Highly flammable complex dense vegetation with shrub understorey and ladders fuels throughout. Forecasted winds will again turn northerly to 20km by afternoon. The wind strength and smoke is proving challenging for aerial operations at times.

Relative humidity is tracking as expected for Saturday with moderate temperatures and high relative humidity supporting firefighting.

**9. Predicted Incident Development**

Weather forecasts are being updated every two hours, so we always have current information.

Weather conditions are reaching their peak for the day and are in line with those predicted. High RH and low temps will continue through to Sunday, with a daily regular wind shift pattern of morning SW transitioning to NE in the afternoon, and the potential for N/NE gusting 40km/hr localised for Sunday is being monitored closely.

Utilising forecasted conditions and the rates of spread experienced over recent days, we have established a worst case scenario, by rate of spread modelling; that a running fire front would reach the Wai-Iti river by 1900 hrs and there would be the possibility of a new fire run on the other side of the Pigeon Valley which would threaten a significant amount of structures on South Pigeon Valley Road. This analysis was reworked Saturday morning and remains unchanged.

**10. Prepared by:** [REDACTED]

**Date/Time:**

**Authorised by** [REDACTED] **(Incident Controller)**

1500 9<sup>th</sup> Feb 2019

Released under the Official Information Act

<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 9&10/2/2019 Time 1900 - 0700	<b>INCIDENT OBJECTIVES</b> RF202
<b>3. Overall Incident Objectives</b> <ol style="list-style-type: none"> <li>1. Ensure the safety of responders and public at all times during the incident</li> <li>2. Minimise the impact on structures, infrastructure, assets and values during the incident</li> <li>3. Minimise impact on environment, culture and historic values during the incident</li> <li>4. Ensure communication and information, liaison with stakeholders/ community/ public/ government bodies and affected parties is timely, meets standards and requirements at all times during the incident</li> <li>5. Report on costs on a daily basis by 1800</li> <li>6. Return community to homes/normal life as soon as practicable</li> <li>7. Investigate cause (including protect initial ignition site and evidence)</li> </ol>		
<b>4. Strategies to meet objectives</b> <ol style="list-style-type: none"> <li>1. Create a safety plan and safety briefing for all staff and contractors. Monitor fire behaviour and establish triggers and cordons for withdrawals and evacuation.</li> <li>2. Use media, trusted community channels and stakeholders to establish communications and engagements. Establish regular briefings and updates.</li> <li>3. Identify critical infrastructure, assets and values. Structures have structure protection crews and technical liaison where required. Water courses and dip sites identified with environmental protection.</li> <li>4. Cultural/Historical/environmental values identified on incident ground (Actual and projected)</li> <li>5. Assign fire investigation to determine cause</li> <li>6. Financial reporting established and continued</li> <li>7. Create a recovery plan with community and stakeholders to assist post incident. <ul style="list-style-type: none"> <li>• Consider operation delivery to minimise impacts in support of the recovery plan.</li> </ul> </li> </ol>		
<b>5. Specific operational tasks for this shift to meet objectives</b> <ul style="list-style-type: none"> <li>• Crew blacking out to 30m in 10m increments</li> <li>• Patrol, and monitor all fire edges, focusing on</li> <li>• Protection of identified structures and assets including cell phone towers, dairy farms and structures in Drones Rd, Teapot Valley, Pigeon Valley and Mill.</li> <li>• Continue to patrol and mop up</li> <li>• Create and strengthen firebreaks</li> <li>• Management of prescribed burn</li> <li>• Heavy machinery to reinforce firebreaks and establish new lines identified in sectors.</li> <li>• Urban appliances tasked for structure protection.</li> <li>• Drone hotspot and perimeter surveys.</li> </ul>		
<b>5. Prepared by:</b> ██████████	<b>Date/Time:</b> 1600 9/2/19	

<b>1. Incident Name</b>	<b>2. Operational Period</b> Date 9&10/2/2019 Time 1900 - 0700	<b>ORGANISATION ASSIGNMENT</b> RF203	
<b>3. Incident Control</b>		<b>Phone</b>	<b>Radio Ch</b>
Incident Controller	[REDACTED]		
	[REDACTED] (NIMIT) (Emergency)		
Deputy IC	[REDACTED] (Emergency)		
Information Officer			
Safety Officer	[REDACTED]		
	[REDACTED]		
	[REDACTED] (NMIT) (Emergency)		
Liaison Officer			
<b>4. Agency Representative - Emergency contacts</b>		<b>Phone</b>	<b>Radio Ch</b>
Lead Agency	[REDACTED] FENZ		
Agency	Police [REDACTED]		
Agency	[REDACTED]		
Agency	CDEM [REDACTED]		
Agency	CDEM Duty Phone		
Agency	FENZ Urban Liason [REDACTED]		
<b>5. Planning/Intell Section - Emergency contacts</b>		<b>Phone</b>	<b>Radio Ch</b>
Planning/Intell Manager	[REDACTED]		
Situations Unit	[REDACTED]		
Resources Unit	[REDACTED]		
<b>6. Logistics Section - Emergency contacts</b>		<b>Phone</b>	<b>Radio Ch</b>
Logistics Manager	[REDACTED] (NMIT)	[REDACTED]	
<b>7. Operations Section</b>		<b>Phone</b>	<b>Radio Ch</b>
Operations Manager	[REDACTED]	[REDACTED]	
	[REDACTED]	[REDACTED]	

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Deputy Operations Manager	[REDACTED]	[REDACTED]	
	[REDACTED] (Emergency)	[REDACTED]	
	[REDACTED] (Emergency)	[REDACTED]	
	[REDACTED] (Emergency)	[REDACTED]	
Division Alpha Commander	[REDACTED]	[REDACTED]	
Division Xray Commander	[REDACTED]	[REDACTED]	
Division Yankee Commander	[REDACTED]	[REDACTED]	
Division Zulu Commander	[REDACTED]	[REDACTED]	
Division Atawhai Commander	[REDACTED]	[REDACTED]	
Air Division – Drone	[REDACTED]	[REDACTED]	
	[REDACTED]	[REDACTED]	
Air Division Commander	[REDACTED] (NMIT) (emergency)	[REDACTED]	
<b>8. Prepared by:</b> [REDACTED]		<b>Date/Time:</b> 1900 9/2/19	

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 9&10/2/2019 Time 1900 - 0700		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Alpha		<b>4. Description</b> Point of ignition to Dove Saddle on Eder Rd			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>	<b>Radio Ch</b>		
██████████		██████████			
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>	<i>Supervisor</i>	<i>Crews</i>	<i>Radio Ch</i>		
D65 Dozer					
D7 Dozer					
210 Excavator					
772-4 Grader					
850-2 Dozer					
NFM 8px Crew					
<b>7. Division Assignment/Special Instructions</b>					
<ul style="list-style-type: none"> <li>- Widen Heines and Foxes Rd to Sunrise Valley then along base of hill to connect Foxes and Heine Rds with break.</li> <li>- Continue to widen Eder Rd from Cuthill Rd to Rout Rd and Rout Rd down to Pigeon Valley</li> <li>- Keep remaining machinery staged for immediate response - Sharp Valley</li> <li>- Crews blanking out to 30m in 10m increments <ul style="list-style-type: none"> <li>• A1 Patrol to ford boundary and evaluates ridge, to liaise with A2.</li> <li>• A2 – x2 patrol either way</li> </ul> </li> </ul>					
Alpha 1 - Div break to Ford on Sharps Rd					
Alpha 2 - From ford on Sharps rd to Cuthill Johnsons Rd intersection (updated Div break)					
<b>8. Division Communications</b>		<b>Phone</b>	<b>Radio Ch</b>		
Operations Manager	██████████	██████████			
<b>9. Prepared By:</b>		<b>Date/Time</b> 1900 9/2/19			
██████████					

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 9&10/2/2019 Time 1900 - 0700		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Xray		<b>4. Description</b> Division from Cut hill Johnsons Rd to CHH saw mill			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>		<b>Radio Ch</b>	
██████████		██████████			
<b>6. Resources Assigned this Period</b>					
<b>Sector</b>		<b>Supervisor</b>		<b>Crews</b>	
██████████ Packer Crew					
AFM Crew					
Appleby Crew					
Brightwater Tank 5075+ Crew					
Upper Takaka CAF + Crew					
RT 210B Excavator					
RT 210A Excavator					
RD JD850 Dozer					
Higgins Tanker					
<b>7. Division Assignment/Special Instructions</b>					
<ul style="list-style-type: none"> <li>• X1 Mop up and patrol following prescribed burn</li> <li>• X2 Patrol and protect structures</li> <li>• X3 Monitor Area</li> </ul> <p>Xray 1 – Cuthill/Johnsons Red intersection (new Div break) to 5423000/1603000  Xray 2 - 5423000/1603000 to intersection of Redwood Valley Rd and Red Stage lane  Xray 3 - Redwood Valley Rd and Red Stage lane to Yankee div break</p>					
<b>8. Division Communications</b>				<b>Phone</b>	
Operations Manager		██████████		██████████	
<b>10. Prepared By:</b> ██████████				<b>Date/Time</b> 1900 9/2/19	

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 9&10/2/2019 Time 1900 - 0700		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Yankee		<b>4. Description</b> Bennets Road to CHH saw mill at Eves Valley			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>		<b>Radio Ch</b>	
██████████		██████████			
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	<i>Radio Ch</i>
Wainui 541					
Upper Takaka + 7px					
210 Excavator					
240 Excavator					
336 Excavator					
D8 Dozer					
<b>7. Division Assignment/Special Instructions</b>					
<ul style="list-style-type: none"> <li>• Y1 Mop up and patrol</li> <li>• Y2 Tree felling machinery to remove Eucalyptus around mill. Patrols to protect mill and surrounding structures</li> </ul> <p>Yankee 1 – South edge of mill to div break at Zulu Yankee 2 – Xray div break to south edge of the mill</p>					
<b>8. Division Communications</b>				<b>Phone</b>	<b>Radio Ch</b>
Operations Manager		██████████	██████████		
<b>11. Prepared By:</b> ██████████				<b>Date/Time</b> 1900 9/2/19	

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 9&10/2/2019 Time 1900 - 0700		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Zulu		<b>4. Description</b> Point of ignition to CHH saw mill			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>		<b>Radio Ch</b>	
██████████		██████████			
<b>6. Resources Assigned this Period</b>					
<b>Sector</b>		<b>Supervisor</b>		<b>Crews</b>	
<b>Radio Ch</b>					
AFM Crew 4px					
██████ Bears Smoke Chase					
Maraharu VRRF smoke Chaser					
██████ Bears Tanker					
Puklowski Tanker					
Brightwater 5071 – Rural Appliance					
Takaka 391 Urban appliance					
Wainui Urban appliance					
D8 Dozer					
155-6 Dozer					
21T Excavator					
26T Excavator					
<b>7. Division Assignment/Special Instructions</b>					
Fire break from Bradely's gate up ridge to Golf Rd, along Watkins Lane and down ridge to sealed area of Golf Rd.					
<ul style="list-style-type: none"> <li>• Z1: Rural patrol along Pigeon valley and Wai-iti streams Structural protection in pigeon valley.</li> <li>• Z2 Structure protection in Teapot Valley and surround</li> </ul>					
Zulu 1 – Alpha div break to Barton Lane Zulu 2 – Barton lane to Yankee div break.					
<b>8. Division Communications</b>					
Operations Manager		██████████		██████████	
<b>12. Prepared By:</b> ██████████				<b>Date/Time</b> 1900 9/2/19	

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 9&10/2/2019 Time 1900 - 0700		<b>DIVISION ASSIGNMENT</b> <small>RF204a</small>	
<b>3. Division</b> Atawhai		<b>4. Description</b>			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>		<b>Radio Ch</b>	
██████████		██████████			
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
<i>Radio Ch</i>					
Night					
██████ Mitchell 6px					
Nelmac 4px					
Tasman Smoke Chaser					
Hira Smoke Chaser					
<b>7. Division Assignment/Special Instructions</b> Ground crew to continue to mop out and blacken out. Deeper seated spots need to be dug out.					
<b>8. Division Communications</b>				<b>Phone</b>	
Operations Manager		██████████		██████████	
<b>13. Prepared By:</b> ██████████				<b>Date/Time</b> 1900 9/2/19	

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 9&10/2/2019 Time 1900 - 0700			<b>AIR OPERATIONS PLAN</b> RF208	
<b>3. Personnel and Communications</b>						
<b>Position</b>	<b>Name</b>	<b>Affiliation</b>	<b>Phone</b>	<b>Radio Chan</b>		
Air Div Commander	██████████ (Emergency)		██████████			
Air Division – Drone	██████████		██████████			
	██████████					
<b>4. Air Resource Assignments</b>						
<b>Pilot Name/ Company</b>	<b>Aircraft Type</b>	<b>Reg or Call sign</b>	<b>Assign- ment</b>	<b>Tactical Freq/Chan</b>	<b>Name</b>	<b>Telephone Numbers</b>
Interpine	RPAS / UAV	PINES1		Fire 4	██████████	
Interpine	RPAS / UAV	PINES2		Fire 4	██████████	
Usar	RPAS / UAV	PINES2		Fire 4	██████████	
<b>5. Location of Filling Points/Service Areas</b>						
<b>Name</b>			<b>Grid Reference</b>			
Heli base			-41.31777, 137.10987			
Fixed wing			41 22 39.9 S 173 05 04.6 E			
<b>6. Safety Notes / Hazards / Radio Coverage Limitations</b>						
<b>7. Air Operations Special Equip or Service</b> Drone operations are tasked to monitor sector Zulu and Yankee for fire movement with infrared						
<b>8. Prepared By:</b> ██████████				<b>Date/Time:</b> 1900 9/2/19		

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1. Incident Name		2. Operational Period		COMMUNICATIONS	
Pigeon Valley		Date 9&10/2/2019 Time 1900 - 0700		PLAN	
				RF205	
<b>3. Radio Channels</b>					
<i>Assigned To</i>	<i>Function</i>	<i>Channel</i>	<i>Frequency</i>	<i>System</i>	
Command		Waimea 1	152.55000 RX 154.33125 TX		
Division Alpha	Operational	Fire 1	143.82500		
Division Zulu	Operational	Fire 2	143.78750		
Division Yankie	Operational	Fire 3	140.92500		
Division Xray	Operational	Fire 1	143.82500		
Division Bravo	Operational	Fire 2	143.78750		
Air Ops -Heli	Operational	Fire 4	140.61250		
Air Ops – Fixed Wing	Operational	Fire 10	140.98750		
Emergency		Waimea 1	152.55000 RX 154.33125 TX		
Resources		Waimea 1	152.55000 RX 154.33125 TX		
FireCom		FireCom			
2 Hourly - Sitrep		OPSR2	Use mobile if difficult coms to FCP		
<b>4. Telephone</b>					
<i>Assigned To</i>	<i>Landline</i>	<i>Cell phone</i>	<i>Fax</i>	<i>Comments</i>	
Emergency		111			
Regional Command Centre (RCC)					
<b>6. Other (e.g. email, Satphone, etc)</b>					
Resources	<a href="mailto:resources@FENZNelsonIMT.com">resources@FENZNelsonIMT.com</a>				
Safety	<a href="mailto:safety@FENZNelsonIMT.com">safety@FENZNelsonIMT.com</a>				
Logistics	<a href="mailto:logistics@FENZNelsonIMT.com">logistics@FENZNelsonIMT.com</a>				
PIM	<a href="mailto:pim@FENZNelsonIMT.com">pim@FENZNelsonIMT.com</a>				
Planning	<a href="mailto:planning@FENZNelsonIMT.com">planning@FENZNelsonIMT.com</a>				
Forward Control Point (FCP)	<a href="mailto:icu.nelson@fireemergency.nz">icu.nelson@fireemergency.nz</a>			[REDACTED]	
Situation / GIS / Intel	<a href="mailto:situation@FENZNelsonIMT.com">situation@FENZNelsonIMT.com</a>				
Operations	<a href="mailto:operations@FENZNelsonIMT.com">operations@FENZNelsonIMT.com</a>				
Photos and imagery	Join Facebook site; Pigeon Valley Fire - INTERNAL COMMS			<a href="https://www.facebook.com/groups/1924082991035550/">https://www.facebook.com/groups/1924082991035550/</a>	
6. Prepared by: [REDACTED]				Date/Time 1900 9/2/19	

<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 9&10/2/2019 Time 1900 - 0700	<b>SAFETY PLAN</b> RF209
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**3. General Safety Points**

Everyone is to be signed in and out of the fire ground through the Incident Control Point for both safety check and payment records (Complete DTR's).

Maintain regular situation reports especially kestrel observations (containing all relevant information) via line supervisors.

LACES	Fire Orders	Watchouts
<b>L</b> - Lookout(s) <b>A</b> – Awareness – Anchor Point(s) <b>C</b> – Communication(s) <b>E</b> – Escape Route(s) <b>S</b> – Safety Zone(s)	<ol style="list-style-type: none"> <li>1. conditions and forecasts</li> <li>2. Know what your fire is doing at all times.</li> <li>3. Base all actions on current and expected fire behaviour of the fire.</li> <li>4. Identify escape routes and safety zones and make them known.</li> <li>5. <b>Post</b> lookouts when there is possible danger.</li> <li>6. <b>Stay</b> alert. Keep calm, Think clearly, act decisively.</li> <li>7. Maintain prompt communication with your crew/s, your supervisor and adjoining crews.</li> <li>8. Give clear instructions and ensure they are understood.</li> <li>9. Maintain control of your crew/s at all times.</li> <li>10. Fight fire aggressively having provided for safety first.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fire size is unknown (no size up).</li> <li>2. Unfamiliar territory</li> <li>3. Safety zones and escape routes not identified.</li> <li>4. Unfamiliar with weather and local factors influencing fire behaviour.</li> <li>5. No communications link with crew members or supervisor.</li> <li>6. Instructions and assignments not clear.</li> <li>7. Weather is getting hotter, drier and relative humidity dropping</li> <li>8. Wind increases and/or changes direction.</li> <li>9. Getting frequent spot fires across the line</li> <li>10. Working uphill or down wind of a fire</li> <li>11. Working on a steep slope</li> <li>12. Working in rugged terrain</li> <li>13. Can't see main fire</li> <li>14. In unburnt vegetation</li> <li>15. Walking through hot ashes</li> <li>16. Working alone</li> <li>17. Getting tired</li> <li>18. Working near power lines</li> <li>19. Working near machinery</li> <li>20. Working with aircraft</li> <li>21. Working around trees or spars</li> </ol>

**4. Specific Safety Points**

- All access points into fire are controlled. Only those authorized to enter and they must receive a briefing and be logged including time and point of access
- Public access managed by cordons
- Weather fire behaviour monitored for changes and communicated to crews. Use kestrels to gather weather data. Risk identified to crews.
- All crews to have adequate food, water, PPE to manage fatigue and hydration.
- Work rest periods enforced. Seek shade during rest period.
- Ensure nine-hour rest periods before returning to fire ground.
- Crews to have identified emergency escape routes and emergency plan in the event of harm. Meeting at pre-identified evacuation point once evacuated.
- All workers to ensure they are competent for the tasks and risks given.
- Air and ground crews to be isolated from risk areas during operations.
- Potential methane flares (Division Yankee) from Eves Valley Landfill. Avoid if possible.
- Avoid skid sites where stability of surface cannot be assured.
- Particular care in smoke, work in smoke and traveling in smoke.
- Ensure operational separation from Air-ops at forward command post
- Follow carpark signage at Forward command post
- Report all incidents and near misses to safety officer.
- Be sun smart, use hats and cover completely.
- Drive carefully in the vicinity of the Brightwater community
- Ensure under garments are flame resistant
- Forestry track road speed 20 km/hr. Use beacons/ lights etc.

<b>5. Prepared By:</b>	<b>Date/Time</b> 1900 9/2/19
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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 9&10/2/2019 Time 1900 - 0700			<b>MEDICAL PLAN</b> RF206						
<b>3. First Aid Station Name</b>		<b>Location</b>		<b>Phone/Radio Channel</b>		<b>Paramedics available at Station</b>					
Each Crew must have available one First aid Level 1 Certified		Each crew									
Nelson 91 Ambulance		Forward command post		Waimea 1		1 Paramedic and 1 EMT					
<b>4. Transportation Ambulance Service</b>		<b>Address</b>		<b>Phone/Radio Channel</b>		<b>Paramedics available with Ambulance</b>					
Ambulance St Johns		Closest unit		111		Yes					
<b>5. Hospitals</b>		<b>Address</b>			<b>Phone</b>		<b>Travel Time</b>		<b>Burn Unit</b>	<b>Heli Pad</b>	
<b>Hospital Name</b>		<b>Address</b>			<b>Phone</b>		<b>Road</b>		<b>Air</b>	<b>Unit</b>	<b>Pad</b>
Nelson Public Emergency		Waimea Rd.			111		27m		4min	y	y
Hutt Hospital (Burn Unit)					111		n/a		40min	Y	y
<b>6. Special Emergency Procedures</b>											
St John will transport patients to whichever health facility is appropriate											
<b>7. Prepared By:</b> [REDACTED] Shift - Manager Nelson				<b>Date/Time</b> 1900 9/2/19							
<b>8. Reviewed by Safety Advisor:</b> [REDACTED]				<b>Date/Time</b> 1900 9/2/19							



<b>1. Incident Name</b> <b>Pigeon Valley</b>	<b>2. Operational Period</b> Date 9&10/2/2019 Time 1900 - 0700	<b>SHORT RANGE FORECAST</b>
<b>3. Download Avenza PDF Maps, Scan the Following Codes to Access Digital Maps</b>		

**4 pm Saturday – 6 am Sunday**

**Rainfall:** Chance of a light shower through to 7pm, thereafter none expected

**Sustained wind:** Currently NE 15 km/h gradually easing to 10 km/h and less by 10pm and turning S-SW. After midnight through to 6pm sustained winds are expected to be light, ~ 5 km/h

**Wind gusts:** Currently gusting ~ 30 km/h and beginning to ease. Gusts will gradually decrease to 15 km/h or less from 11pm onward.

**Temperature:** Decreasing to near 14°C early morning.

**Humidity:** 70% and increasing to near 95% after midnight.

**6 am – 6 pm Sunday**

**Rainfall:** None expected

**Sustained wind:** Light (~ 5 km/h) W-SW in the morning, gradually increasing and becoming E-NE by 1pm through to 6pm. From 1pm onwards sustained winds will be 15 km/h.

**Wind gusts:** Gusts around 10 km/h at 6am gradually increasing up to 25 km/h by 12pm. From 1pm-6pm gusts up to 45 km/h are possible.

**Temperature:** A maximum of 22-23°C by early-to-mid-afternoon.

**Humidity:** 95% decreasing to 60% by 2pm and then slightly increasing to 70% by 6pm.

**Outlook for Monday:**

Rainfall - None expected.

Afternoon wind gusts up to 35 km/h possible.

Maximum temperature 23-24°C.

**Outlook for Tuesday:**

Light afternoon/evening showers possible

Afternoon wind gusts up to 40 km/h possible.

Maximum temperature 25-26°C

**Note that there has been an update to the forecast maximum wind gusts in the area tomorrow from 40 km/h in previous forecasts to 45 km/h. Overall winds are expected to be slightly higher than they have been today but from a similar direction.**

<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 9&10/2/2019 Time 1900 - 0700	<b>FIRE BEHAVIOUR FORECAST</b>
<b>3. Download Avenza PDF Maps, Scan the Following Codes to Access Digital Maps</b>		

### FIRE BEHAVIOUR FORECAST

<b>Fire name: Pigeon Road</b>	<b>Prediction for: 0800-1800 10 Feb-19</b>
<b>Prepared by:</b> [REDACTED]	<b>Time and date issued: 1430 09th Feb 19</b>
<b>Forecast no. 5</b>	Day Shift

<i>Assumptions: Dovedale weather station</i>				<i>Saturday's forecast</i>					
<b>Temp *</b>	<b>RH %</b>	<b>Wind km/hr</b>	<b>Slope *</b>	<b>FFMC</b>	<b>DMC</b>	<b>DC</b>	<b>ISI</b>	<b>BUI</b>	<b>FWI</b>
<b>21</b>	<b>65</b>	<b>15</b>	<b>0</b>	<b>79</b>	<b>102</b>	<b>477</b>	<b>7</b>	<b>133</b>	<b>18</b>

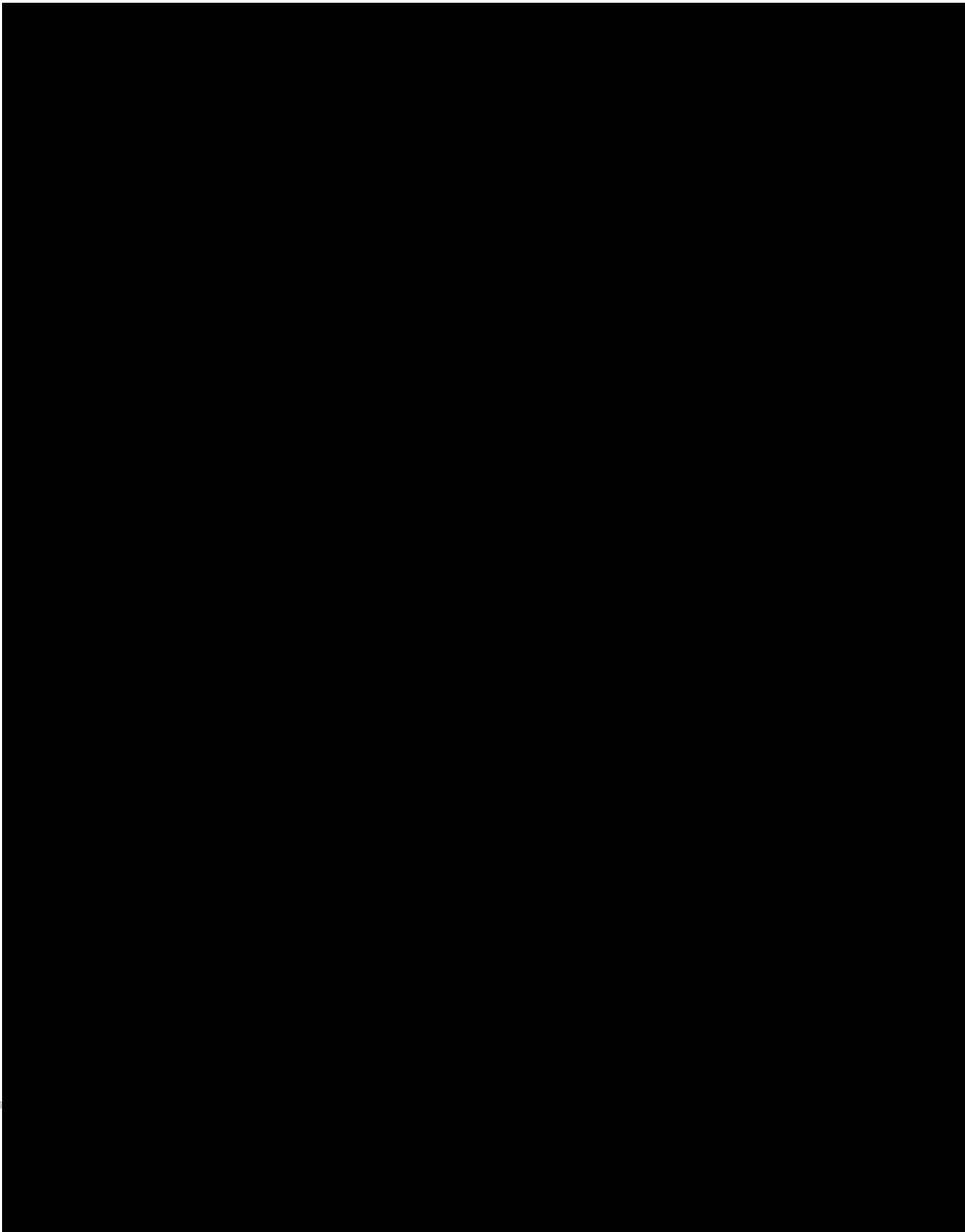
Rates of spread are the equilibrium rate of spread, not the build-up phase, with continuous fuel and similar fuel type.

#### Fire Behaviour General:

<b>Expected fire behaviour</b> – slope 0° (expected fire front)	<b>Forecast</b> worst case – 28°C 45%RH slope 20° 1400-1800
<b>Fuel type:</b> Forest/Scrub/gorse mix	<b>Fuel type:</b> Forest/Scrub/ gorse mix
Expect HF rate of spread of 185 m/hr HF Intensity 2939 kw/m Flame lengths 3.1 m	Expect HF rate of spread of 600 m/hr HF Intensity >8900 kw/m Flame lengths 5 m
<b>Fuel type:</b> Grass-80% GC, 100% cover, 0.1m height	<b>Fuel type:</b> Ungrazed Grass -70% GC, 100% cover, 0.2m height
Expect HF rate of spread of 500 m/hr HF Intensity 630 kw/m Flame lengths 1.4 m	Expect HF rate of spread of 1600 m/hr HF Intensity 1570 kW/m Flame lengths 2.3 m
<b>Safety Considerations:</b>	
Head Fire intensity, in pine/scrub fuels will require air attack.	Head Fire intensity exceed threshold for direct attack in gorse and mature pine fuels.. Flank fires intensity is now too high for ground crews
Based on the Dovedale weather station and NIWA forecasting.	

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**QR CODES FOR MAP DOWNLOAD**



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**1. Incident Name**

Pigeon Valley Fire, Nelson

Date 9&amp;10/2/2019

Time 1900 - 0700

# Public Information Management Plan

## Overview of PIM response

The NIMT and FENZ PIM team is working to support the Nelson Tasman Civil Defence PIM team. Is it essential that the information coming in from the fire ground (with regards to FENZ operations) is collated by the NIMT Situation Unit and shared to the Civil Defence IMT - this is done through the PIM teams working collaboratively and assists in timely, accurate and relevant information to all stakeholders involved.

Update @ 1830hrs: We have been informed late this evening that the weather forecast for tomorrow indicates the potential for smoke to blow over the Nelson City area at approximately midday. Messaging around this health risk will need to be included in future communications to the public.

## NIMT PIM team – as at Friday 9th February

PIM Manager – [REDACTED]

Social Media Manager, Community Liaison, Evac/Alerts – Civil Defence

The PIM Team roster is available from NIMT Logistics Manager. There is a number of personnel changes occurring from tomorrow afternoon with a handover period.

## Key Message:

Evacuated personnel to contact the Civil Defence Welfare Centre

Follow the Nelson Tasman Civil Defence facebook page for updates and check their website

Media to contact the PIM Manager

## FENZ Stakeholders and Audience Groups

Organisation	Detail	Name	Contact Info
FENZ Org (forward system to ELT, NCC, OCE and Board)	Requires regular updates – committed to 4x updates daily at 0800hrs, 1100hrs, 1500hrs and 1900hrs	RCC Christchurch	[REDACTED] and cc, [REDACTED] and <a href="mailto:Media@fireandemergency.nz">Media@fireandemergency.nz</a>
Evacuated Residents	Community Meeting scheduled	Various	Comms through social media, Civil Defence website, welfare team and media.

	for Monday 11 <sup>th</sup> Feb		
Interested Public	Local community (not evacuated) and wider	Various	Social media posts, Civil Defence website, FENZ website, media outlets
Cordons	Managed by Police, kept updated via PIM team		Police Liaison in IMT
IMT and Support Staff	Information to help their roles	*See structure charts	Briefings, meetings, conversations between the teams, Sit Reps
Media Outlets	Require full-time management and contact	*See media list	

Direct message distribution	Details of the specific sites or types
Websites	Nelson Tasman Civil Defence - <a href="http://www.nelsontasmancivildefence.co.nz/">http://www.nelsontasmancivildefence.co.nz/</a> Fire and Emergency NZ <a href="http://www.fireandemergency.nz">www.fireandemergency.nz</a>
Social media	Main channel: Nelson Tasman Civil Defence facebook page Tasman-Malborough Fire Area facebook page
Helpline	Welfare Helpline – 03 543 8400
Information points	Cordons (located as per map)
Community contacts/meetings	Community Meeting tentatively scheduled for Saturday 9 <sup>th</sup> Feb at 0900hrs at Appleby Fire Station.
Media message distribution	Specific stations or publications
Radio	*See media list
TV	
Newspapers	
Media	Schedule
Media briefing/conferences	Proposing Media Stand Up at 8am – TBC depending on interest overnight.
Media site visits	None scheduled currently.
Interviews	None scheduled currently
Message monitoring	
Messaging being monitored by Civil Defence PIM Team and dealt with / passed on accordingly. FENZ PIM team are supporting for Media management and FENZ / Operational information requiring to be gathered and shared.	

Prepared by: [REDACTED]

Date: 9/2/19 1900hrs

<b>Sector Supervisors Report</b> (to be completed following shift)	Fire location		Signed		
	S-Supervisor name		Sector Name/Location		
	Shift Start	Date	Shift Start	Date	
		Time		Time	
<b>Crews on your sector</b>					
Crew Name/Company	C-Leader Name	No. Crew	Equipment used that crew supplied		
			Radios	C-saw	H-Tools
<b>Equipment used on the sector</b>					
Pumps  (hrs for each pump)	Wajax 1		hrs	Acqualite 1	hrs
	Wajax 2		hrs	Waterous 1	hrs
	Wajax 3		hrs	No Dams Used	
	Wajax 4		hrs		
Hose Lengths	25mm 4lengths=1pk		41mm 3lengths=1pk		70mm
Suppressants	Foam		Litres		Soap Cap
<b>Fire Appliances Used on the sector</b>					
Registration	Type	Driver name	Hourly Usage on site	Other Comments	
<b>Heavy Machinery Used on site</b>					
Registration	Type	Driver name	Hourly Usage on site	Other Comments	

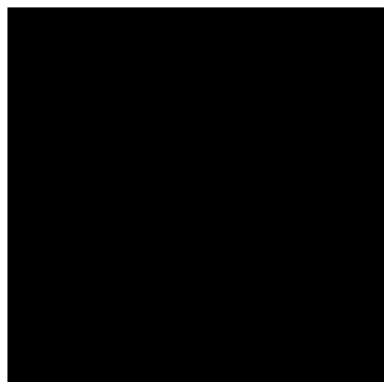
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<b>Incident Name</b>	<b>Operational Period</b>	<b>IAP COVER SHEET</b> RF199
Pigeon Valley	Date 10/2/2019 Time 0700 - 1900	

## INCIDENT ACTION PLAN

The items checked below are included in the incident Action Plan

- SITUATION REPORT
- INCIDENT OBJECTIVES
- ORGANISATIONAL LIST
- SECTOR ASSIGNMENT
- DIVISIONAL ASSIGNMENT
- AIR OPERATIONS PLAN
- COMMUNICATION PLAN
- SAFETY PLAN
- MEDICAL PLAN
- FIRE MAP
- WEATHER FORECAST AND MAP
- FIRE BEHAVIOUR FORECAST
- OVERVIEW MAPS AND DOWNLOAD QR CODES
- PUBLIC INFORMATION & MEDIA



<b>Approved by Incident Controller:</b>	<b>Signed</b>	<b>Date/Time</b>
Name 		2000 8/2/19





<b>1. Incident Name</b> <b>Pigeon Valley</b>	<b>2. Operational Period</b> Date 10/2/2019 Time 0700 - 1900	<b>SITUATION REPORT</b> RF201
<b>3. Location</b> Pigeon Rd, Eves Valley, Tasman	<b>4. Vegetation</b> Forest/Scrub/Grass/Slash/ Other:	
<p><b>Latest information as at 1400 9/2/2019:</b> Fire activity has been low through the morning with crews focussing on hot spots and strengthening containment lines. Some air support was needed in the Redwood area to take the fire intensity out of some gully areas. Extra machinery is now putting in new control lines closer to Wakefield through the forest area. In the Atawhai area there has been increased hot spot activity as the heat of the day increases along with the sea breeze coming in. A clear perimeter has been established.</p> <p>A low intensity fire controlled burn is being considered in understorey in north western (X-Ray Div) to bring the burnt area out to the containment lines. This will aid our goal of overall containment of the fire and may help speed return of residents to this area. However if successful would greatly reduce future risk in this area. Detailed fire weather and behaviour has now been modelled for this section from 1300-1800 today, to evaluate risk and benefit, with an Options Analysis on tactics is being prepared, consultation with the Forest Owner is being undertaken and a media plan is being prepared.</p> <p>Weather conditions are reaching their peak for the day and are in line with those predicted. We are hoping the do not exceed predictions. High RH and low temps will continue through to Sunday, with a daily regular wind shift pattern of morning SW transitioning to NE in the afternoon. The potential for N/NE gusting 50km/hr localised for Sunday is a very high risk and will need to be monitored closely.</p> <p>Current resources working on the vegetation fire (day shift) are</p> <ul style="list-style-type: none"> <li>- 23 helicopters, two fixed wings plane, 1 drone team</li> <li>- 18 vegetation crews, and 11 structure crews (151 personnel)</li> <li>- 21 heavy machines (excavators and dozers) + additional 2 added at 0800hrs</li> <li>- 47 incident management staff.</li> </ul>		

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## 6. Assessment

A large scrub/ forest fire is currently burning estimated to be over 2200ha as at 0700hrs on 9<sup>th</sup> Feb with a perimeter of 25km having extended overnight in the primarily in the pigeon valley area and north western boundary.

Thursday afternoon there was a breakout in an area where the fire retardant and aerial suppression wasn't effective in containing the fire. Fire spotting occurred in excess of 500m at times. Up until this morning this breakout has burnt approximately 515ha of heavy fuels (pine forest). The fire behaviour was mainly internal burning throughout Friday, but has extended late evening and throughout the night along a 800m section north of Haytons Rd as the fire progressed upslope. Fire intensity has risen 0530hrs 9 Feb, and machinery and ground crews have focused much of the overnight activity on this 800m fire line. Drone infrared operations were used throughout the night to assist ground operations.

Values at risk are life, and property.

Local crews and heavy machinery successfully protected nearby residential properties under very challenging fire conditions on Thursday. The fire has backed up on several structures close to the forest boundary on the south east, but are being protected by effective fire breaks which were established Thursday night. Machinery fire control lines now extend around 90% of the Sectors Zulu and Yankee.

Evacuations operations were conducted Friday across Wakefield based on predicted rates of spread in the event another breakout occurs and a front is generated. This was jointly decided between Police, Civil Defence and FENZ that evacuation of the Wakefield residents which incrementally commenced Friday afternoon. With the suppression effort the arrival of the fire at the Evacuation trigger points was delayed, with the fire reaching this point at 0030hr Sat 9 Feb at night when favourable wind and weather conditions helped slow further progression.

A huge effort has been invested in this area today to allow this part of the fire to quietly burn down hill to the riverflats. To date we have been successful in extinguishing the fire as it comes out of the pine plantation into the scrub and grassland.

Telecommunications site on the end of Cooks Rd (near Wakefield) are at risk with northerly wind. Two contingency mobile site are currently being installed near Wakefield so that the communications at Wakefield will be maintained in the event the current site is damaged.

The fire that started yesterday afternoon at Atawhai Road Fire.

Overhead, helicopters and ground crew were assigned to this fire and resources deployed were 5x helicopter arrived on site.

As of 0730 this is still active with smoke rising from the site and further aircraft has been dispatched to site this morning. Fire confirmed at 9.6ha 1.6km perimeter and is under control with monitoring.

Rabbit Island confirmed at 3ha 650m perimeter and no longer staffed, but fire observers are monitoring. This will be flown for hotspots using infrared drones Sat night shift.

## 7. Action taken

Current resources for fire management currently working on the vegetation fire (days shift) are

- 23 helicopters, two fixed wings plane, 1 drone team
- 18 vegetation crews, and 11 structure crews (151 personnel)
- 21 heavy machines (excavators and dozers) + additional 2 added at 0800hrs
- 47 incident management staff.

Helicopter resources continue targeting the breakout area on the southeast boundary bordering Wakefield and heavy machinery has established control lines on 95% of the boundary on sectors Zulu and Yankee. The fireline established was jumped at 0530hrs, and a secondary containment lines is being constructed by fellerbunchers, and heavy machinery. Ground resources in this sector are also focused on the 800m fireline of active fire intensity.

Felling machinery underway around the Eve's Valley mill, removing Euc trees.

Machinery and feller bunchers will continue are felling larger trees, shifting logs, and extending a contingency control line to enhance the fire break there in anticipation of the E wind, which is forecasted for today on the western fire boundary. Fall back lines on the western boundary have had significant strengthening with overnight work.

Fire observers continue working throughout fire grounds including providing helicopter observation of areas which have potential for spotting.

Black out work, machine fire breaking and hot spot targeting is continuing on the other parts of the fire ground.

Thursday we established a No-Fly Zone over the fire ground, this will be in place until Monday 5pm. The No-Fly zone is to 3000m and 3km from the red zone.

3 drone teams will survey the fire lines overnight Saturday to look at extent of containment lines for updates Sunday morning.

Additional structure crews and appliances, plus vegetation crews and other resources to facilitate rotation of crews for fatigue management.

A fire observer will also monitor the Atawhai Road fire.

## 8. Factors,

Extreme fire conditions. Limited natural water supply. Steep terrain. Highly flammable complex dense vegetation with shrub understorey and ladders fuels throughout. Forecasted winds will again turn northerly to 20km by afternoon. The wind strength and smoke is proving challenging for aerial operations at times.

Relative humidity is tracking as expected for Saturday with moderate temperatures and high relative humidity supporting firefighting.

### 9. Predicted Incident Development

Weather forecasts are being updated every two hours, so we always have current information.

Weather conditions are reaching their peak for the day and are in line with those predicted. High RH and low temps will continue through to Sunday, with a daily regular wind shift pattern of morning SW transitioning to NE in the afternoon, and the potential for N/NE gusting 40km/hr localised for Sunday is being monitored closely.

Utilising forecasted conditions and the rates of spread experienced over recent days, we have established a worst case scenario, by rate of spread modelling; that a running fire front would reach the Wai-iti river by 1900 hrs and there would be the possibility of a new fire run on the other side of the Pigeon Valley which would threaten a significant amount of structures on South Pigeon Valley Road. This analysis was reworked Saturday morning and remains unchanged.

<b>10. Prepared by:</b> [REDACTED]		<b>Date/Time:</b>
<b>Authorised by</b> [REDACTED] <b>(Incident Controller)</b>		1500 9 <sup>th</sup> Feb 2019
<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 9/2/2019 Time 0700 - 1900	<b>SITUATION REPORT</b> RF201
<b>3. Location</b> Pigeon Rd, Eves Valley, Tasman	<b>4. Vegetation</b> Forest/Scrub/Grass/Slash/ Other:	

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<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 10/2/2019 Time 0700 - 1900	<b>INCIDENT OBJECTIVES</b> RF202
<b>3. Overall Incident Objectives</b> <ol style="list-style-type: none"> <li>1. Ensure the safety of responders and public at all times during the incident</li> <li>2. Minimise the impact on structures, infrastructure, assets and values during the incident</li> <li>3. Minimise impact on environment, culture and historic values during the incident</li> <li>4. Ensure communication and information, liaison with stakeholders/ community/ public/ government bodies and affected parties is timely, meets standards and requirements at all times during the incident</li> <li>5. Report on costs on a daily basis by 1800</li> <li>6. Return community to homes/normal life as soon as practicable</li> <li>7. Investigate cause (including protect initial ignition site and evidence)</li> </ol>		
<b>4. Strategies to meet objectives</b> <ol style="list-style-type: none"> <li>1. Create a safety plan and safety briefing for all staff and contractors. Monitor fire behaviour and establish triggers and cordons for withdrawals and evacuation.</li> <li>2. Use media, trusted community channels and stakeholders to establish communications and engagements. Establish regular briefings and updates.</li> <li>3. Identify critical infrastructure, assets and values. Structures have structure protection crews and technical liaison where required. Water courses and dip sites identified with environmental protection.</li> <li>4. Cultural/Historical/environmental values identified on incident ground (Actual and projected)</li> <li>5. Assign fire investigation to determine cause</li> <li>6. Financial reporting established and continued</li> <li>7. Create a recovery plan with community and stakeholders to assist post incident. <ul style="list-style-type: none"> <li>• Consider operation delivery to minimise impacts in support of the recovery plan.</li> </ul> </li> </ol>		
Specific operational tasks for this shift to meet objectives <ul style="list-style-type: none"> <li>• Crew blacking out to 30m in 10m increments</li> <li>• Patrol, and monitor all fire edges, focusing on</li> <li>• Protection of identified structures and assets including cell phone towers, dairy farms and structures in Drones Rd, Teapot Valley, Pigeon Valley and Mill.</li> <li>• Continue to patrol and mop up</li> <li>• Establish an 'initial attack capability' for the incident.</li> <li>• Create and strengthen firebreaks</li> <li>• Management of prescribed burn</li> <li>• Heavy machinery to reinforce firebreaks and establish new lines identified in sectors.</li> <li>• Urban appliances tasked for structure protection.</li> </ul>		
<b>5. Prepared by:</b> [REDACTED]	<b>Date/Time: 1900 8/2/19</b>	

<b>1. Incident Name</b>	<b>2. Operational Period</b> Date 10/2/2019 Time 0700 - 1900	<b>ORGANISATION ASSIGNMENT</b> RF203
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<b>3. Incident Control</b>	Phone	Radio Ch
Incident Controller [REDACTED] (NIMT)	[REDACTED]	
Deputy IC [REDACTED]	[REDACTED]	
Information Officer	[REDACTED]	
Safety Officer [REDACTED] (NMIT)	[REDACTED]	
Liaison Officer	[REDACTED]	

<b>4. Agency Representative</b>	Phone	Radio Ch
Lead Agency [REDACTED] FENZ	[REDACTED]	
Agency Police [REDACTED]	[REDACTED]	
Agency [REDACTED]	[REDACTED]	
Agency CDEM [REDACTED]	[REDACTED]	
Agency CDEM Duty Phone	[REDACTED]	
Agency FENZ Urban Liason [REDACTED]	[REDACTED]	

<b>5. Planning/Intell Section</b>	Phone	Radio Ch
Planning/Intell Manager	[REDACTED]	
Situations Unit	[REDACTED]	
	[REDACTED]	
	[REDACTED]	
	[REDACTED]	
	[REDACTED]	
	[REDACTED]	
	[REDACTED]	
	[REDACTED]	
	[REDACTED]	
	[REDACTED]	
	[REDACTED]	
Resources Unit	[REDACTED]	
	[REDACTED]	
	[REDACTED]	
	[REDACTED]	
Management Support Unit	[REDACTED]	
Information Unit	[REDACTED]	

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Advance Planning Unit			
Fire investigation	[REDACTED]	[REDACTED]	
<b>6. Logistics Section</b>			
		Phone	Radio Ch
Logistics Manager	[REDACTED] (NMIT)	[REDACTED]	
Supply Unit	[REDACTED]		
Catering Unit			
Facilities Unit	[REDACTED]	[REDACTED]	
Finance Unit			
Communications Unit			
Medical Unit			
<b>7. Operations Section</b>			
		Phone	Radio Ch
Operations Manager	[REDACTED]	[REDACTED]	[REDACTED]
Deputy Operations Manager	[REDACTED]	[REDACTED]	[REDACTED]
Division Alpha	[REDACTED]	[REDACTED]	[REDACTED]
Division Xray	[REDACTED]	[REDACTED]	[REDACTED]
Division Yankee	[REDACTED]	[REDACTED]	[REDACTED]
Division Zulu	[REDACTED]	[REDACTED]	[REDACTED]
Division Atawhai	[REDACTED]	[REDACTED]	[REDACTED]
Air Division Commander	[REDACTED]	[REDACTED]	[REDACTED]
Air Attack Supervisor	[REDACTED]	[REDACTED]	[REDACTED]
Air Attack Supervisor(Trainee)	[REDACTED]	[REDACTED]	[REDACTED]
Air Support Supervisor	[REDACTED]	[REDACTED]	[REDACTED]
<b>8. Prepared by:</b>		<b>Date/Time:</b> 1900 8/2/19	
	[REDACTED]		

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 10/2/2019 Time 0700 - 1900		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Alpha		<b>4. Description</b> Point of ignition to Dove Saddle on Eder Rd			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>	<b>Radio Ch</b>		
██████████		██████████	Command: Fire Crew: Simplex		
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
<i>Radio Ch</i>					
Bulldozer D7		TLC			
Excavator 20 T		TLC			
Hira Smoke Chaser from 2pm					
DOC Motueka +3 PX		Last Day			
DOC Takaka + 8 PX		Last Day			
DOC Nelson Lakes + 4 PX		Last Day			
DOC South Marlborough + 4 PX					
JNL + 4 PX					
Ngatimoti 5325 Smoke Chaser +2					
<b>A1</b>					
Dozer to continue to widen Rout Rd. Smoke chaser and crews blacking out to 30 m in 10m increments along perimeter where possible and safe. Structure protection in Sharps Rd Valley area					
<b>A2</b>					
Feller buncher to continue removing large trees along the East side of Cut Hill Rd and where required on fire ground. To be directed by Heavy equip. manager and Div. Commander Mop up with ground crews from yesterdays burn					
<b>Helicopters to support ground crews. Division Commanders to call Air Attack on Channel VHF 4 to request</b>					
Alpha 1 - Div break to Ford on Sharps Rd Alpha 2 - From ford on Sharps rd to Cuthill Johnsons Rd intersection (updated Div break)					
<b>8. Division Communications</b>				<b>Phone</b>	
<b>Radio Ch</b>					
Operations Manager		██████████		██████████	
Air Division Commander		██████████		██████████	
				Fire 1/Cellphone	
				Fire 4/Cellphone	
<b>9. Prepared By:</b> ██████████				<b>Date/Time</b> 1900 9/2/19	



<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 10/2/2019 Time 0700 - 1900		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Xray		<b>4. Description</b> Division from Cut hill Johnsons Rd to CHH saw mill			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>	<b>Radio Ch</b>		
██████████		██████████	Fire 5		
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>	<i>Supervisor</i>		<i>Crews</i>	<i>Radio Ch</i>	
D155 Dozer					
Nicholson Tanker	13,000 L				
Excavators X2					
Appleby Tanker (short crewed)					
Smoke Chaser Wainui 3px					
NZDF RFA x7px					
Invercargill Crew + 5 PX					
AFM – ██████████ 4px					
Otago Crew + 5 PX					
Hurunui Crew + 4 PX					
<p>X1 Mop up with ground crews following yesterdays burn. Continue widening Cut Hill Rd to Moutere saddle and assist on Johnsons Rd if required</p> <p>X2 Check and enhance perimeter around structures. Ground crews to mop up and patrol.</p> <p>X3 Monitor only, no operations required at this stage.</p> <p>Helicopters to support ground operations as required. Division Commanders to call Air attack on VHF 4 with requirements</p> <p>Xray 1 – Cuthill/Johnsons Red intersection (new Div break) to 5423000/1603000  Xray 2 - 5423000/1603000 to intersection of Redwood Valley Rd and Red Stage lane  Xray 3 - Redwood Valley Rd and Red Stage lane to Yankee div break</p>					
<b>8. Division Communications</b>			<b>Phone</b>	<b>Radio Ch</b>	
Operations Manager	██████████	██████████	██████████	Fire 1/Cellphone	
Air Division Commander	██████████	██████████	██████████	Fire 4/Cellphone	
<b>10. Prepared By:</b> ██████████			<b>Date/Time</b> 1900 9/2/19		

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 10/2/2019 Time 0700 - 1900		<b>DIVISION ASSIGNMENT</b> <small>RF204a</small>	
<b>3. Division</b> Yankee		<b>4. Description</b> Bennets Road to CHH saw mill at Eves Valley			
<b>5. Division Commander</b>	<i>Affiliation</i>	<i>Phone</i>	<i>Radio Ch</i>		
██████████	Wakefield VFB	██████████	Fire 3		
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
2x Excavator 20T		Taylors			
Bulldozer D8		Taylors			
Brightwater 5026 + 4px					
Rural Tanker Downers + 1px					
Brightwater 5071 + 3px					
Stoke 221 + 5px					
Richmond 331 + 4px					
Ngatimoti 5375 + 4px					
Wellington 2 + 5 PX					
West Coast 2 + 5 PX And Smoke Chaser and Tanker					
<p>Y1 Push fire line in from Eder Rd and continue to widen Eder Rd Monitor existing fire break</p> <p>Y2 Continue felling Eucalyptus trees aroun Eves Valley Mill Protect Mill and surrounding structures</p> <p>Helicopters to support ground operations as required. Division Commanders to call Air attack on VHF 4 with requirements</p> <p>Yankee 1 – South edge of mill to div break at Zulu Yankee 2 – Xray div break to south edge of the mill</p>					
<b>8. Division Communications</b>				<i>Phone</i>	<i>Radio Ch</i>
Operations Manager		██████████	██████████	Fire 1/Cellphone	
Air Division Commander		██████████	██████████	Fire 4/Cellphone	
<b>11. Prepared By:</b> ██████████				<b>Date/Time</b> 1900 9/2/19	

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 10/2/2019 Time 0700 - 1900		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Zulu		<b>4. Description</b> Point of ignition to CHH saw mill			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>		<b>Radio Ch</b>	
██████████		██████████		Fire 2	
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	<i>Radio Ch</i>
4x Excavator 20T		TLC			
D65 Dozer		██████████			
Watertanker					
Tree and Forestry + 4px					
South Canterbury 10px					
Lake Rotoiti + 4 PX					
Upper Moutere 321 + 5 PX					
Wellington 1 + 5 PX					
<p>Z1 Protection of cell tower with aircraft only  Maintain mobility in this sector react to any break out (smoke chasers, 4wd tankers). Prioritise this area due to large number of structures.  Remove vegetation between Pigeon Creek and vehicle/machinery yard and continue to the North to the road near the small bridge across dry creek.  Lay a contingent retardant line by tanker &amp; hose 5 metres wide on the forest side at the junction of Pigeon and Wai iti streams.  Lay a contingent retardant line around structures north of Wakefield as directed by Div Commander.</p> <p>Will instruct Division Commander of exact locations at morning briefing</p> <p>Z2 Link containment line from Barton Rd to Tea Pot valley.  Protection of dairy farm and structures  Ground crews continue to mop up.  Protection of structures near top of Drones by extending defensible space.</p> <p>Helicopters to support ground operations as required. Division Commanders to call Air attack on VHF 4 with requirements</p> <p>Zulu 1 – Alpha div break to Barton Lane  Zulu 2 – Barton lane to Yankee div break.</p>					
<b>8. Division Communications</b>				<b>Phone</b>	<b>Radio Ch</b>
Operations Manager		██████████		██████████	Fire 1/Cellphone
Air Division Commander		██████████		██████████	Fire 4/Cellphone
<b>12. Prepared By:</b> ██████████				<b>Date/Time</b> 1900 9/2/19	

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 10/2/2019 Time 0700 - 1900		<b>DIVISION ASSIGNMENT</b> <small>RF204a</small>	
<b>3. Division</b> Atawhai		<b>4. Description</b>			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>		<b>Radio Ch</b>	
██████████	FENZ	██████████			
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
				<i>Radio Ch</i>	
Doc S.Cant Crew 8px (2 merged)					
Hawks Bay Crew – 5px					
716 smoke chaser					
Hira Smoke chaser 2px					
██████████ Winn Tanker (Bulk) 1x					
<b>7. Division Assignment/Special Instructions</b>					
Ground crews continue to mop up and blacken out.					
Deeper seated spots will need to be dug out.					
<b>8. Division Communications</b>				<b>Phone</b>	
Operations Manager				<b>Radio Ch</b>	
<b>13. Prepared By:</b> ██████████				Date/Time 1900 9/2/2019	

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 10/2/2019 Time 0700 - 1900		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Property Assessments		<b>4. Description</b> Functional division across Pigeon Valley Incident			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>		<b>Radio Ch</b>	
<b>6. Resources Assigned this Period</b>					
<b>Sector</b>		<b>Supervisor</b>		<b>Crews</b>	
<b>Radio Ch</b>					
		FENZ Liaison			
<b>7. Division Assignment/Special Instructions</b>					
<ol style="list-style-type: none"> <li>The property assessments are being planned and completed to ensure the safety of responders and residents during visitation and reoccupation. Fire danger risk assessments will be completed for each property, surrounding area and access routes. The risk assessments will include work on danger trees, condition of surrounding flammable fuels and built structures. These will be reviewed in relation to incident status and predicted weather.</li> <li>The assessments will include staff from Civil defence, FENZ and specialist contractors as required.</li> <li>Liaison communications will be maintained with division commanders at all times when on the incident ground</li> <li>Timeline for the assessments to be confirmed</li> </ol>					
<b>8. Division Communications</b>				<b>Phone</b>	
				<b>Radio Ch</b>	
Operations Manager		[REDACTED]		[REDACTED]	
Air Division Commander		[REDACTED]		[REDACTED]	
				Fire 1/Cellphone	
				Fire 4/Cellphone	
<b>14. Prepared By:</b> [REDACTED]				<b>Date/Time</b> 1900 8/2/19	

<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 10/2/2019 Time 0700 - 1900	<b>AIR OPERATIONS PLAN</b> RF208
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3. Personnel and Communications				
Position	Name	Affiliation	Phone	Radio Chan
Air Div Commander	[REDACTED]		[REDACTED]	
Air Attack Supervisor		Fire 4		
Air Attack Supervisor(Trainee)				
Air Support Supervisor				
Lead Helicopter Pilot				
Lead Fixed-Wing Pilot				

4. Air Resource Assignments						
Pilot Name/ Company	Aircraft Type	Reg or Call sign	Assign- ment	Tactical Freq/Chan	Name	Telephone Numbers
Becks	UH-1	HHF		Fire 4	[REDACTED]	
Becks	UH-1	HHB		Fire 4		
Helicharter	500D	HXX		Fire 4		
Garden City Heli	B3	IHL		Fire 4		
Garden City Heli	EC130	IGF		Fire 4		
Garden City Heli	BK	IVB		Fire 4		
Reid Heli	B2	HPE		Fire 4		
Reid Heli	FX2	HEX		Fire 4		
Reid Heli	B2	IOR		Fire 4		
Southern Heli Lift	UH-1L	HUE		Fire 4		
Marlborough Heli	Jetranger	HZE		Fire 4		
Marlborough Heli	Long Ranger	HTA		Fire 4		
Skyworks	B3	HWW		Fire 4		
Amuri Heli	FX2	HJM		Fire 4		
Anderson	B2	HKA		Fire 4		
Independent Heli	EC130	IWS		Fire 4		
Christchurch Heli	B2	HNC		Fire 4		
Wanaka Heli	B2	HFF		Fire 4		
Mt Hutt Heli	BA	HYS		Fire 4		
Heliventures	B2	IER		Fire 4		
Murchison Heli	BA	ILW		Fire 4		
[REDACTED]	Cresco			Fire 4		
[REDACTED]	Airtractor			Fire 4		
Interpine	RPAS / UAV	PINES1		Fire 4		

Interpine	RPAS / UAV	PINES2		Fire 4	
Usar	RPAS / UAV	PINES3		Fire 4	
<b>5. Location of Filling Points/Service Areas</b>					
<b>Name</b>			<b>Grid Reference</b>		
Heli base			-41.31777, 137.10987		
Fixed wing			41 22 39.9 S 173 05 04.6 E		
<b>6. Safety Notes / Hazards / Radio Coverage Limitations</b>					
<b>7. Air Operations Special Equip or Service</b>					
<ul style="list-style-type: none"> <li>• Retardent filling crew (Fixed Wing) - [REDACTED]</li> <li>• Bryant Earthworks - [REDACTED] <ul style="list-style-type: none"> <li>• 2x dip trucks</li> <li>• 1x dip truck and trailer</li> <li>• 5x support tankers</li> </ul> </li> </ul>					
<b>8. Prepared By:</b> [REDACTED]				<b>Date/Time:</b> 1900 8/2/19	

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 10/2/2019 Time 0700 - 1900		<b>COMMUNICATIONS PLAN</b> RF205	
<b>3. Radio Channels</b>					
<i>Assigned To</i>	<i>Function</i>	<i>Channel</i>	<i>Frequency</i>	<i>System</i>	
Command		Waimea 1	152.55000 RX 154.33125 TX		
Division Alpha	Operational	Fire 1	143.82500		
Division Zulu	Operational	Fire 2	143.78750		
Division Yankee	Operational	Fire 3	140.92500		
Division Xray	Operational	Fire 1	143.82500		
Air Ops -Heli	Operational	Fire 4	140.61250		
Air Ops – Fixed Wing	Operational	Fire 10	140.98750		
Emergency		Waimea 1	152.55000 RX 154.33125 TX		
Resources		Waimea 1	152.55000 RX 154.33125 TX		
FireCom		FireCom			
2 Hourly - Sitrep		OPSR2	Use mobile if difficult coms to FCP		
<b>4. Telephone</b>					
<i>Assigned To</i>	<i>Landline</i>	<i>Cell phone</i>	<i>Fax</i>	<i>Comments</i>	
Emergency		111			
Regional Command Centre (RCC)					
<b>6. Other (e.g. email, Satphone, etc)</b>					
Resources	<a href="mailto:resources@FENZNelsonIMT.com">resources@FENZNelsonIMT.com</a>				
Safety	<a href="mailto:safety@FENZNelsonIMT.com">safety@FENZNelsonIMT.com</a>				
Logistics	<a href="mailto:logistics@FENZNelsonIMT.com">logistics@FENZNelsonIMT.com</a>				
PIM	<a href="mailto:pim@FENZNelsonIMT.com">pim@FENZNelsonIMT.com</a>				
Planning	<a href="mailto:planning@FENZNelsonIMT.com">planning@FENZNelsonIMT.com</a>				
Forward Control Point ( FCP)	<a href="mailto:icu.nelson@fireemergency.nz">icu.nelson@fireemergency.nz</a>			[REDACTED]	
Situation / GIS / Intel	<a href="mailto:situation@FENZNelsonIMT.com">situation@FENZNelsonIMT.com</a>				
Operations	<a href="mailto:operations@FENZNelsonIMT.com">operations@FENZNelsonIMT.com</a>				
Photos and imagery	Join Facebook site; Pigeon Valley Fire - INTERNAL COMMS			<a href="https://www.facebook.com/groups/1924082991035550/">https://www.facebook.com/groups/1924082991035550/</a>	
<b>6. Prepared by:</b> [REDACTED]				<b>Date/Time</b> 1900 8/2/19	
<b>7.</b>					



<b>1. Incident Name</b> <b>Pigeon Valley</b>	<b>2. Operational Period</b> Date 10/2/2019 Time 0700 - 1900	<b>SAFETY PLAN</b> RF209
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**3. General Safety Points**

Everyone is to be signed in and out of the fire ground through the Incident Control Point for both safety check and payment records (Complete DTR's).

Maintain regular situation reports especially kestrel observations (containing all relevant information) via line supervisors.

LACES	Fire Orders	Watchouts
<b>L - Lookout(s)</b> <b>A – Awareness</b> – Anchor Point(s) <b>C – Communication(s)</b> <b>E – Escape Route(s)</b> <b>S – Safety Zone(s)</b>	<ol style="list-style-type: none"> <li>1. conditions and forecasts</li> <li>2. Know what your fire is doing at all times.</li> <li>3. Base all actions on current and expected fire behaviour of the fire.</li> <li>4. Identify escape routes and safety zones and make them known.</li> <li>5. <b>Post</b> lookouts when there is possible danger.</li> <li>6. <b>Stay</b> alert. Keep calm, Think clearly, act decisively.</li> <li>7. Maintain prompt communication with your crew/s, your supervisor and adjoining crews.</li> <li>8. Give clear instructions and ensure they are understood.</li> <li>9. Maintain control of your crew/s at all times.</li> <li>10. Fight fire aggressively having provided for safety first.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fire size is unknown (no size up).</li> <li>2. Unfamiliar territory</li> <li>3. Safety zones and escape routes not identified.</li> <li>4. Unfamiliar with weather and local factors influencing fire behaviour.</li> <li>5. No communications link with crew members or supervisor.</li> <li>6. Instructions and assignments not clear.</li> <li>7. Weather is getting hotter, drier and relative humidity dropping</li> <li>8. Wind increases and/or changes direction.</li> <li>9. Getting frequent spot fires across the line</li> <li>10. Working uphill or down wind of a fire</li> <li>11. Working on a steep slope</li> <li>12. Working in rugged terrain</li> <li>13. Can't see main fire</li> <li>14. In unburnt vegetation</li> <li>15. Walking through hot ashes</li> <li>16. Working alone</li> <li>17. Getting tired</li> <li>18. Working near power lines</li> <li>19. Working near machinery</li> <li>20. Working with aircraft</li> <li>21. Working around trees or spars</li> </ol>

- 4. Specific Safety Points**
- All access points into fire are controlled. Only those authorized to enter and they must receive a briefing and be logged including time and point of access
  - Public access managed by cordons
  - Weather fire behaviour monitored for changes and communicated to crews. Use kestrels to gather weather data. Risk identified to crews.
  - All crews to have adequate food, water, PPE to manage fatigue and hydration.
  - Work rest periods enforced. Seek shade during rest period.
  - Ensure nine-hour rest periods before returning to fire ground.
  - Crews to have identified emergency escape routes and emergency plan in the event of harm. Meeting at pre-identified evacuation point once evacuated.
  - All workers to ensure they are competent for the tasks and risks given.
  - Air and ground crews to be isolated from risk areas during operations.
  - Potential methane flares (Division Yankee) from Eves Valley Landfill. Avoid if possible.
  - Avoid skid sites where stability of surface cannot be assured.
  - Particular care in smoke, work in smoke and traveling in smoke.
  - Ensure operational separation from Air-ops at forward command post
  - Follow carpark signage at Forward command post
  - Report all incidents and near misses to safety officer.
  - Be sun smart, use hats and cover completely.
  - Drive carefully in the vicinity of the Brightwater community
  - Ensure under garments are flame resistant
  - Forestry track road speed 20 km/hr. Use beacons/ lights etc.

<b>5. Prepared By:</b>	<b>Date/Time</b> 1900 8/2/19
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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 10/2/2019 Time 0700 - 1900			<b>MEDICAL PLAN</b> RF206		
<b>3. First Aid Station Name</b>		<b>Phone/Radio Channel</b>		<b>Paramedics available at Station</b>			
<b>Name</b>		<b>Location</b>					
Each Crew must have available one First aid Level 1 Certified		Each crew					
Nelson 91 Ambulance		Forward command post		Waimea 1		1 Paramedic and 1 EMT	
<b>4. Transportation Ambulance Service</b>		<b>Address</b>		<b>Phone/Radio Channel</b>		<b>Paramedics available with Ambulance</b>	
Ambulance St Johns		Closest unit		111		Yes	
<b>5. Hospitals</b>				<b>Travel Time</b>		<b>Burn Unit</b>	<b>Heli Pad</b>
<b>Hospital Name</b>		<b>Address</b>		<b>Phone</b>	<b>Road</b>	<b>Air</b>	
Nelson Public Emergency		Waimea Rd.		111	27m	4min	y
Hutt Hospital (Burn Unit)				111	n/a	40min	Y
<b>6. Special Emergency Procedures</b>							
St John will transport patients to whichever health facility is appropriate							
<b>7. Prepared By:</b>		Shift - Manager Nelson			<b>Date/Time</b> 1900 8/2/19		

## Short range FORECAST

### **4 pm Saturday – 6 am Sunday**

**Rainfall:** Chance of a light shower through to 7pm, thereafter none expected

**Sustained wind:** Currently NE 15 km/h gradually easing to 10 km/h and less by 10pm and turning S-SW. After midnight through to 6pm sustained winds are expected to be light, ~ 5 km/h

**Wind gusts:** Currently gusting ~ 30 km/h and beginning to ease. Gusts will gradually decrease to 15 km/h or less from 11pm onward.

**Temperature:** Decreasing to near 14°C early morning.

**Humidity:** 70% and increasing to near 95% after midnight.

### **6 am – 6 pm Sunday**

**Rainfall:** None expected

**Sustained wind:** Light (~ 5 km/h) W-SW in the morning, gradually increasing and becoming E-NE by 1pm through to 6pm. From 1pm onwards sustained winds will be 15 km/h.

**Wind gusts:** Gusts around 10 km/h at 6am gradually increasing up to 25 km/h by 12pm. From 1pm-6pm gusts up to 45 km/h are possible.

**Temperature:** A maximum of 22-23°C by early-to-mid-afternoon.

**Humidity:** 95% decreasing to 60% by 2pm and then slightly increasing to 70% by 6pm.

### **Outlook for Monday:**

Rainfall - None expected.

Afternoon wind gusts up to 35 km/h possible.

Maximum temperature 23-24°C.

### **Outlook for Tuesday:**

Light afternoon/evening showers possible

Afternoon wind gusts up to 40 km/h possible.

Maximum temperature 25-26°C

## FIRE BEHAVIOUR FORECAST

<b>Fire name: Pigeon Road</b>	<b>Prediction for: 0800-1800 10 Feb-19</b>
<b>Prepared by:</b> ██████████	<b>Time and date issued: 1430 09th Feb 19</b>
<b>Forecast no. 5</b>	Day Shift

<i>Assumptions: Dovedale weather station</i>				<i>Saturday's forecast</i>					
<b>Temp *</b>	<b>RH %</b>	<b>Wind km/hr</b>	<b>Slope *</b>	<b>FFMC</b>	<b>DMC</b>	<b>DC</b>	<b>ISI</b>	<b>BUI</b>	<b>FWI</b>
<b>21</b>	<b>65</b>	<b>15</b>	<b>0</b>	<b>79</b>	<b>102</b>	<b>477</b>	<b>7</b>	<b>133</b>	<b>18</b>

Rates of spread are the equilibrium rate of spread, not the build-up phase, with continuous fuel and similar fuel type.

### Fire Behaviour General:

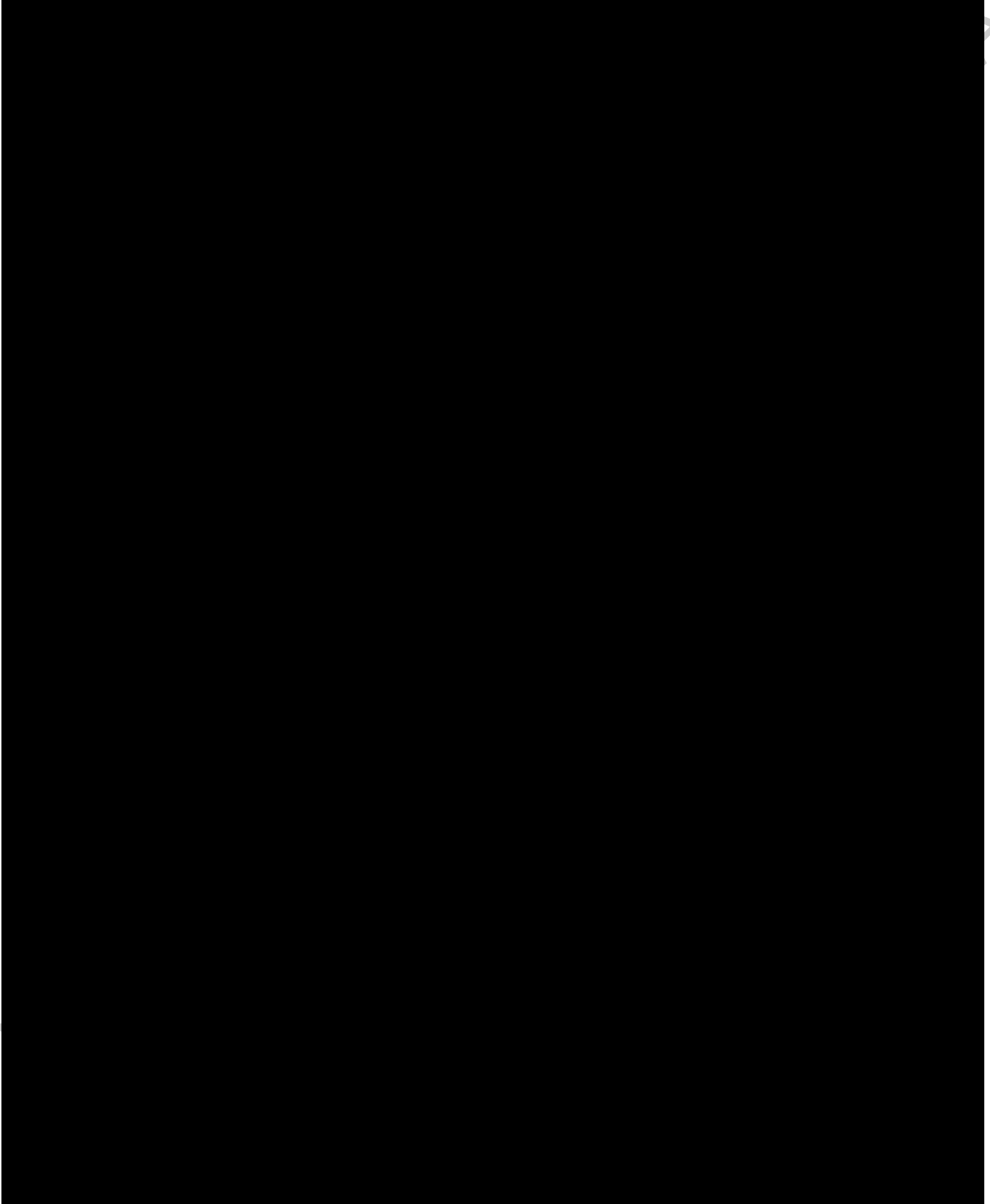
<b>Expected fire behaviour</b> – slope 0° (expected fire front)	<b>Forecast</b> worst case – 28°C 45%RH slope 20° 1400-1800
<b>Fuel type:</b> Forest/Scrub/gorse mix	<b>Fuel type:</b> Forest/Scrub/ gorse mix
Expect HF rate of spread of 185 m/hr HF Intensity 2939 kw/m Flame lengths 3.1 m	Expect HF rate of spread of 600 m/hr HF Intensity >8900 kw/m Flame lengths 5 m
<b>Fuel type:</b> Grass-80% GC, 100% cover, 0.1m height	<b>Fuel type: Ungrazed Grass</b> -70% GC, 100% cover, 0.2m height
Expect HF rate of spread of 500 m/hr HF Intensity 630 kw/m Flame lengths 1.4 m	Expect HF rate of spread of 1600 m/hr HF Intensity 1570 kW/m Flame lengths 2.3 m
<b>Safety Considerations:</b>	
Head Fire intensity, in pine/scrub fuels will require air attack.	Head Fire intensity exceed threshold for direct attack in gorse and mature pine fuels.. Flank fires intensity is now too high for ground crews
Based on the Dovedale weather station and NIWA forecasting.	

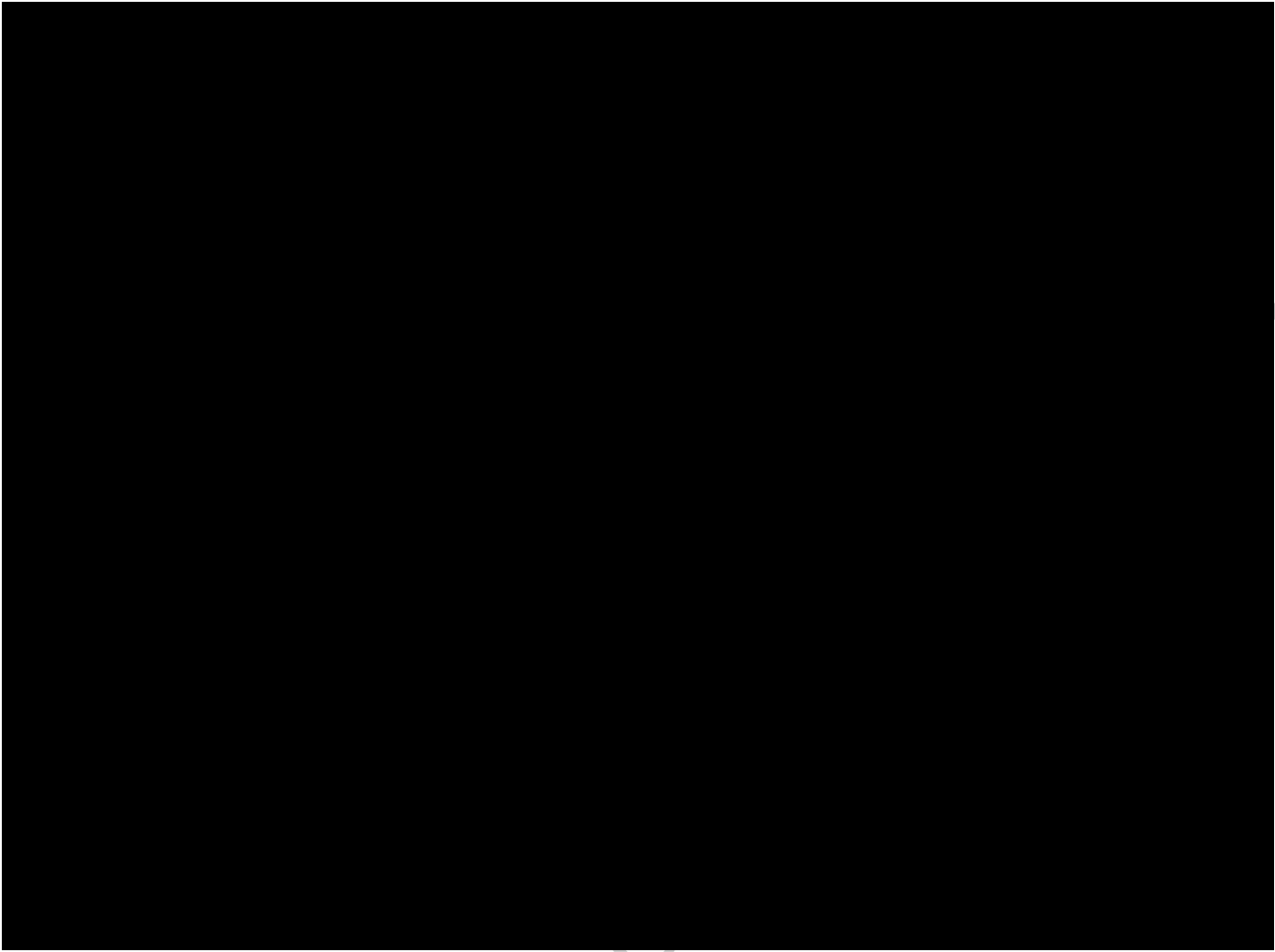
RF201a

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<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 10/2/2019 Time 0700 - 1900	<b>MAPS</b> RF
<b>3. Download Avenza PDF Maps, Scan the Following Codes to Access Digital Maps</b>		

## QR CODES FOR MAP DOWNLOAD





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# Public Information Management Plan

## Overview of PIM response

The NIMT PIM team is working to support the Nelson Tasman Civil Defence PIM team. It is essential that the information coming in from the fire ground (with regards to FENZ operations) is collated by the NIMT Situation Unit and shared to the Civil Defence IMT - this is done through the PIM teams working collaboratively and assists in timely, accurate and relevant information to all stakeholders involved.

The overall PIM team is increasing personnel numbers.

## NIMT PIM team – for Sunday 10<sup>th</sup> February

PIM Manager – [REDACTED]

Media Officer – [REDACTED]

PIM Support – [REDACTED]

Social Media Manager, Community Liaison, Evac/Alerts – Civil Defence

The PIM Team roster is available from NIMT Logistics Manager.

## PIM meetings:

Ops Briefing	0700hrs
Media Briefing #1	0830hrs
Planning Meeting #1	1030hrs
Tactics Meeting	1300hrs
Media Briefing #2	1530hrs
Planning Meeting #2	1700hrs

## Key Messages:

- **Attn Cordons:** Media should only be allowed access to cordoned areas and restricted sites if approved and accompanied by a member of the PIM Team. Please be diligent with allowing people through.
- Evacuations are still in place, for more information, go to [www.nelsontasmancivildefence.co.nz](http://www.nelsontasmancivildefence.co.nz)
- Evacuated residents should check in at the Civil Defence Welfare Centre located at the Saxton Field Stadium or call the Civil Defence Welfare helpline - 03 543 8400
- Media should contact the Media Officer for specific event information and media standup information.
- Fire safety messages are: Stay away from the area and follow authorities instructions. Also help protect your property by creating a 'defensible zone' – Compost, mulch or remove any section or yard waste materials.
- Donated items should be sealed, long-life foods and drink, drop off at Nelson Tasman District Council Office.

## FENZ Stakeholders and Audience Groups

Organisation	Detail	Name	Contact Info
FENZ Org (forward system to ELT, NCC, OCE and Board)	Requires regular updates – committed to 4x updates daily at 0800hrs, 1100hrs, 1500hrs and 1900hrs. Additionally a phone call every hour	RCC Christchurch	RCC R4 & R2, NCC, [REDACTED], [REDACTED], Nelson Tasman CD Planning & Intel, NIMT Situation Unit, Comms Team
Evacuated Residents	Community Meeting – next one on Monday 11 <sup>th</sup> Feb	Various	Comms through social media, Civil Defence website, welfare team and media.
Interested Public	Local community (not evacuated) and wider	Various	Social media posts, Civil Defence website, FENZ website, media outlets
Cordons	Managed by Police, kept updated via PIM team		Police Liaison in IMT
IMT and Support Staff	Information to help their roles	*See structure charts	Briefings, meetings, conversations between the teams, Sit Reps
Media Outlets	Require full-time management and contact	*See media list	
<b>Direct message distribution</b>	<b>Details of the specific sites or types</b>		
Websites	Nelson Tasman Civil Defence - <a href="http://www.nelsontasmancivildefence.co.nz/">http://www.nelsontasmancivildefence.co.nz/</a> Fire and Emergency NZ <a href="http://www.fireandemergency.nz">www.fireandemergency.nz</a>		
Social media	Main channel: Nelson Tasman Civil Defence facebook page Fire and Emergency NZ facebook page Tasman-Malborough Fire Area facebook page		
Helpline	Welfare Helpline – 03 543 8400		
Information points	Cordons (located as per map)		
Community contacts/meetings	Community Meeting Monday 11 <sup>th</sup> February – details TBC.		
<b>Media message distribution</b>	<b>Specific stations or publications</b>		
Radio	*See media list		
TV			
Newspapers			



Media	Schedule
Media briefing/conferences	Media Stand Up at 0830hrs. Media Stand Up at 1530hrs. 2 hourly Media Releases
Media site visits	Staff reporter requested for flyover - TBA
Interviews	Regular interviews with FENZ personnel
<b>Message monitoring</b>	
Messaging is being monitored by Civil Defence PIM Team and dealt with / passed on accordingly. FENZ PIM team are supporting for Media management and FENZ / Operational information requiring to be gathered and shared.	

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<b>1. Incident Name</b> Pigeon Valley Fire, Nelson	<b>2. Operational Period</b> 09/02/2019 – 0700 to 1900
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<b>Sector Supervisors Report</b> (to be completed following shift)	Fire location				Signed		
	S-Supervisor name				Sector Name/Location		
	Shift Start	Date			Shift Start	Date	
		Time				Time	

<b>Crews on your sector</b>						
Crew Name/Company	C-Leader Name	No. Crew	Equipment used that crew supplied			
			Radios	C-saw	H-Tools	Other

<b>Equipment used on the sector</b>						
Pumps (hrs for each pump)	Wajax 1		hrs	Acqualite 1		hrs
	Wajax 2		hrs	Waterous 1		hrs
	Wajax 3		hrs	No Dams Used		
	Wajax 4		hrs			
Hose Lengths	25mm 4lengths=1pk		41mm 3lengths=1pk		70mm	
Suppressants	Foam		Litres		Soap Cap	

<b>Fire Appliances Used on the sector</b>				
Registration	Type	Driver name	Hourly Usage on site	Other Comments

<b>Heavy Machinery Used on site</b>				
Registration	Type	Driver name	Hourly Usage on site	Other Comments

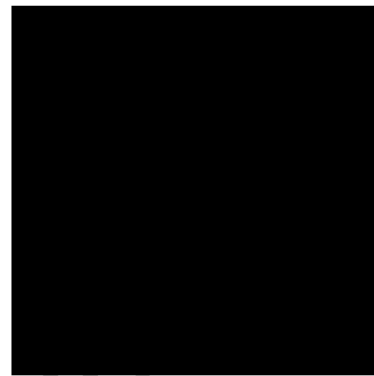
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<b>Incident Name</b>	<b>Operational Period</b>	<b>IAP COVER SHEET</b> RF199
Pigeon Valley	Date 10&11/2/2019	
	Time 1900 – 0700	

## INCIDENT ACTION PLAN

The items checked below are included in the incident Action Plan

- SITUATION REPORT
- INCIDENT OBJECTIVES
- ORGANISATIONAL LIST
- SECTOR ASSIGNMENT
- DIVISIONAL ASSIGNMENT
- COMMUNICATION PLAN
- SAFETY PLAN
- MEDICAL PLAN
- FIRE MAP
- WEATHER FORECAST AND MAP
- FIRE BEHAVIOUR FORECAST
- OVERVIEW MAPS AND DOWNLOAD QR CODES
- PUBLIC INFORMATION & MEDIA



<b>Approved by Incident Controller:</b>	<b>Signed</b>	<b>Date/Time</b>
Name		1900 10/2/19



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1. Incident Name	2. Operational Period	SITUATION REPORT RF201
<b>Pigeon Valley</b> Pigeon Rd, Eves Valley, Tasman	Date 10&11/2/2019 Time 1900 – 0700	
<p><b>3. Location</b> Pigeon Rd, Eves Valley, Tasman</p> <p><b>4. Vegetation</b> Forest/Scrub/Grass/Slash/ Other:</p> <p><b>Latest information as at 1400 9/2/2019:</b> Fire activity has been low through the morning with crews focussing on hot spots and strengthening containment lines. Some air support was needed in the Redwood area to take the fire intensity out of some gully areas. Extra machinery is now putting in new control lines closer to Wakefield through the forest area. In the Atawhai area there has been increased hot spot activity as the heat of the day increases along with the sea breeze coming in. A clear perimeter has been established.</p> <p>A low intensity controlled burn was completed in understorey in north western (X-Ray Div) to bring the burnt area out to the containment lines. This will aid our goal of overall containment of the fire and may help speed return of residents to this area</p> <p>Weather conditions are reaching their peak for the day and are in line with those predicted. We are hoping these not exceed predictions. High RH and low temps will continue through to Sunday, with a daily regular wind shift pattern of morning SW transitioning to NE in the afternoon. A revised weather forecast from NIWA has lowered the wind speed prediction to 20kph gusting to 30kph rather than 40kph tomorrow</p> <p>Current resources working on the vegetation fire (day shift) are</p> <ul style="list-style-type: none"> <li>- 23 helicopters, two fixed wings plane, 1 drone team</li> <li>- 18 vegetation crews, and 11 structure crews (151 personnel)</li> <li>- 21 heavy machines (excavators and dozers) + additional 2 added at 0800hrs</li> <li>- 47 incident management staff.</li> </ul>		

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## 6. Assessment

A large scrub/ forest fire is currently burning estimated to be over 2200ha as at 0700hrs on 9<sup>th</sup> Feb with a perimeter of 25km having extended overnight in the primarily in the pigeon valley area and north western boundary.

Thursday afternoon there was a breakout in an area where the fire retardant and aerial suppression wasn't effective in containing the fire. Fire spotting occurred in excess of 500m at times. Up until this morning this breakout has burnt approximately 515ha of heavy fuels (pine forest). The fire behaviour was mainly internal burning throughout Saturday Drone infrared operations were used throughout the night to assist ground operations.

Values at risk are life, and property.

Local crews and heavy machinery successfully protected nearby residential properties under very challenging fire conditions on Thursday. The fire has backed up on several structures close to the forest boundary on the south east, but are being protected by effective fire breaks which were established Thursday night. Machinery fire control lines now extend around 90% of the Sectors Zulu and Yankee.

Evacuations operations were conducted Friday across Wakefield based on predicted rates of spread in the event another breakout occurs and a front is generated. This was jointly decided between Police, Civil Defence and FENZ that evacuation of the Wakefield residents which incrementally commenced Friday afternoon. With the suppression effort the arrival of the fire at the Evacuation trigger points was delayed, with the fire reaching this point at 0030hr Sat 9 Feb at night when favourable wind and weather conditions helped slow further progression.

A huge effort has been invested in this area today to allow this part of the fire to quietly burn down hill to the riverflats. To date we have been successful in extinguishing the fire as it comes out of the pine plantation into the scrub and grassland.

Telecommunications site on the end of Cooks Rd (near Wakefield) are at risk with northerly wind. Two contingency mobile site are currently being installed near Wakefield so that the communications at Wakefield will be maintained in the event the current site is damaged.

The fire that started yesterday afternoon at Atawhai Road Fire.

Overhead, helicopters and ground crew were assigned to this fire and resources deployed were 5x helicopters, 4x urban and one rural arrived on site. As of 0730 this is still active with smoke rising from the site and further aircraft was dispatched to site the next day. Fire confirmed at 9.6ha 1.6km perimeter and is under control with monitoring.

Rabbit Island confirmed at 3ha 650m perimeter and no longer staffed, but fire observers are monitoring. This will be flown for hotspots using infrared drones Sat night shift.

## 7. Action taken

Current resources for fire management currently working on the vegetation fire (days shift) are

- 23 helicopters, two fixed wings plane, 1 drone team
- 18 vegetation crews, and 11 structure crews (151 personnel)
- 21 heavy machines (excavators and dozers) + additional 2 added at 0800hrs
- 47 incident management staff.

Helicopter resources continue targeting the breakout area on the southeast boundary bordering Wakefield and heavy machinery has established control lines on 95% of the boundary on sectors Zulu and Yankee. The fireline established was jumped at 0530hrs, and a secondary containment lines is being constructed by fellerbunchers, and heavy machinery. Ground resources in this sector are also focused on the 800m fireline of active fire intensity.

Felling machinery underway around the Eve's Valley mill, removing Euc trees.

Machinery and feller bunchers will continue are felling larger trees, shifting logs, and extending a contingency control line to enhance the fire break there in anticipation of the E wind, which is forecasted for today on the western fire boundary. Fall back lines on the western boundary have had significant strengthening with overnight work.

Fire observers continue working throughout fire grounds including providing helicopter observation of areas which have potential for spotting.

Black out work, machine fire breaking and hot spot targeting is continuing on the other parts of the fire ground.

Thursday we established a No-Fly Zone over the fire ground, this will be in place until Monday 5pm. The No-Fly zone is to 3000m and 3km from the red zone.

3 drone teams will survey the fire lines overnight Saturday to look at extent of containment lines for updates Sunday morning.

Additional structure crews and appliances, plus vegetation crews and other resources to facilitate rotation of crews for fatigue management.

A fire observer will also monitor the Atawhai Road fire.

## 8. Factors,

Extreme fire conditions. Limited natural water supply. Steep terrain. Highly flammable complex dense vegetation with shrub understorey and ladders fuels throughout. Forecasted winds will again turn northerly to 20km gusting to 40km by afternoon. The wind strength and smoke is proving challenging for aerial operations at times.

Relative humidity is tracking as expected for Saturday with moderate temperatures and high relative humidity supporting firefighting.

**9. Predicted Incident Development**

Weather forecasts are being updated every two hours, so we always have current information.

Weather conditions are reaching their peak for the day and are in line with those predicted. High RH and low temps will continue through to Monday, with a daily regular wind shift pattern of morning SW transitioning to NE in the afternoon, and the potential for N/NE gusting 30km/hr localised for Monday is being monitored closely.

Utilising forecasted conditions and the rates of spread experienced over recent days, we have established a worst case scenario, by rate of spread modelling; that a running fire front would reach the Wai-Iti river in six hours and there would be the possibility of a new fire run on the other side of the Pigeon Valley which would threaten a significant amount of structures on South Pigeon Valley Road. This analysis was reworked Saturday morning and remains unchanged.

**10. Prepared by:** [REDACTED]

**Date/Time:**

**Authorised by** [REDACTED] **(Incident Controller)**

10/2/19 1900hrs

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<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 10&11/2/2019 Time 1900 – 0700	<b>INCIDENT OBJECTIVES</b> RF202
<b>3. Overall Incident Objectives</b> <ol style="list-style-type: none"> <li>1. Ensure the safety of responders and public at all times during the incident</li> <li>2. Minimise the impact on structures, infrastructure, assets and values during the incident</li> <li>3. Minimise impact on environment, culture and historic values during the incident</li> <li>4. Ensure communication and information, liaison with stakeholders/ community/ public/ government bodies and affected parties is timely, meets standards and requirements at all times during the incident</li> <li>5. Report on costs on a daily basis by 1800</li> <li>6. Return community to homes/normal life as soon as practicable</li> <li>7. Investigate cause (including protect initial ignition site and evidence)</li> </ol>		
<b>4. Strategies to meet objectives</b> <ol style="list-style-type: none"> <li>1. Create a safety plan and safety briefing for all staff and contractors. Monitor fire behaviour and establish triggers and cordons for withdrawals and evacuation.</li> <li>2. Use media, trusted community channels and stakeholders to establish communications and engagements. Establish regular briefings and updates.</li> <li>3. Identify critical infrastructure, assets and values. Structures have structure protection crews and technical liaison where required. Water courses and dip sites identified with environmental protection.</li> <li>4. Cultural/Historical/environmental values identified on incident ground (Actual and projected)</li> <li>5. Assign fire investigation to determine cause</li> <li>6. Financial reporting established and continued</li> <li>7. Create a recovery plan with community and stakeholders to assist post incident. <ul style="list-style-type: none"> <li>• Consider operation delivery to minimise impacts in support of the recovery plan.</li> </ul> </li> </ol>		
<b>5. Specific operational tasks for this shift to meet objectives</b> <ul style="list-style-type: none"> <li>• Crew blacking out to 30m in 10m increments</li> <li>• Patrol, and monitor all fire edges, focusing on prescribed burn in Zulu 1 and Eder and Cuthill roads</li> <li>• Protection of identified structures and assets including cell phone towers, dairy farms and structures in Drones Rd, Teapot Valley, Pigeon Valley and Mill.</li> <li>• Create and strengthen firebreaks – focusing on Heines and Foxes Rd. New breaks on Golf Rd linkages</li> <li>• Urban appliances tasked for structure protection Teapot Valley.</li> <li>• Drone hotspot and perimeter surveys.</li> <li>• Tree Felling around Mill</li> <li>• Initial Attack crew on standby</li> </ul>		
<b>5. Prepared by:</b> ██████████	<b>Date/Time:</b> 10/2/19 1900hrs	





Air Division – Drone	[REDACTED]	
Air Division Commander	[REDACTED]	
<b>8. Prepared by:</b>	[REDACTED]	<b>Date/Time:</b> 10/2/19 1900hrs

Released under the Official Information Act

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 10&11/2/2019 Time 1900 – 0700		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Alpha		<b>4. Description</b> Point of ignition to Dove Saddle on Eder Rd			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>		<b>Radio Ch</b>	
██████████		██████████			
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
D65 Dozer					
D7 Dozer					
210 Excavator					
772-4 Grader					
850-2 Dozer					
NFM 8px Crew					
<b>7. Division Assignment/Special Instructions</b>					
<ul style="list-style-type: none"> <li>• A1 Monitor and patrol to boundary at ford into A2</li>   <li>• A2 Monitor Eder and Cuthill roads, especially around the area where burn took place in Zulu 1 Crews blackening out to 30m in 10m increments where safe to do so Widen Heines and Foxes Rd to Sunrise Valley Cut break from Eder Rd to ~6.5k mark then down prominent ridge to Forest Rd at A1/A2 junction</li> </ul> <p>Alpha 1 - Div break to Ford on Sharps Rd Alpha 2 – From ford on Sharps rd to Cuthill Johnsons Rd intersection (updated Div break)</p>					
<b>8. Division Communications</b>				<b>Phone</b>	
Operations Manager		██████████		██████████	
<b>9. Prepared By:</b> ██████████				<b>Date/Time</b> 10/2/19 1900hrs	

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 10&11/2/2019 Time 1900 – 0700		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Xray		<b>4. Description</b> Division from Cut hill Johnsons Rd to CHH saw mill			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>		<b>Radio Ch</b>	
██████████		██████████			
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
██████████ Packer Crew					
AFM Crew					
Appleby Crew					
Brightwater Tank 5075+ Crew					
Upper Takaka CAF + Crew					
RT 210B Excavator					
RT 210A Excavator					
RD JD850 Dozer					
Higgins Tanker					
<b>7. Division Assignment/Special Instructions</b>					
<ul style="list-style-type: none"> <li>• X1 Mop up and patrol following prescribed burn. Blacken out to 30m</li> <li>• X2 Patrol and protect structures</li> <li>• X3 Monitor Area</li> </ul> <p>Xray 1 – Cuthill/Johnsons Red intersection (new Div break) to 5423000/1603000  Xray 2 - 5423000/1603000 to intersection of Redwood Valley Rd and Red Stage lane  Xray 3 - Redwood Valley Rd and Red Stage lane to Yankee div break</p>					
<b>8. Division Communications</b>				<b>Phone</b>	
Operations Manager		██████████		██████████	
<b>10. Prepared By:</b> ██████████				<b>Date/Time</b> 10/2/19 1900hrs	

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 10&11/2/2019 Time 1900 – 0700		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Yankee		<b>4. Description</b> Bennets Road to CHH saw mill at Eves Valley			
<b>5. Division Commander</b>	<i>Affiliation</i>	<i>Phone</i>	<i>Radio Ch</i>		
██████████		██████████			
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>	<i>Supervisor</i>		<i>Crews</i>	<i>Radio Ch</i>	
Wainui 541 – Defence crew					
Upper Takaka + 5px	Last night				
210 Excavator					
240 Excavator					
336 Excavator					
D8 Dozer					
<b>7. Division Assignment/Special Instructions</b>					
<ul style="list-style-type: none"> <li>• Y1 Mop up and patrol, aim for blackening to 30 from perimeter</li> <li>• Y2 Tree felling machinery to remove Eucalyptus around mill. Patrols to protect mill and surrounding structures</li> </ul> <p>Yankee 1 – South edge of mill to div break at Zulu Yankee 2 – Xray div break to south edge of the mill</p>					
<b>8. Division Communications</b>			<i>Phone</i>	<i>Radio Ch</i>	
Operations Manager ██████████			██████████		
<b>11. Prepared By:</b> ██████████			<b>Date/Time</b> 10/2/19 1900hrs		

Released under the Official Information Act

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 10&11/2/2019 Time 1900 – 0700		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Zulu		<b>4. Description</b> Point of ignition to CHH saw mill			
<b>5. Division Commander</b>	<i>Affiliation</i>	<i>Phone</i>	<i>Radio Ch</i>		
██████████		██████████			
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
<i>Radio Ch</i>					
AFM Crew 5px		Last night 11th			
██████ Bears Smoke Chase					
Maraharu VRRF smoke Chaser					
██████ Bears Tanker					
Tapawera 01 + 10px					
Brightwater 5071 – Rural Appliance					
Takaka 391 Urban appliance					
Wainui Urban appliance					
D8 Dozer					
155-6 Dozer					
21T Excavator					
26T Excavator					
<b>7. Division Assignment/Special Instructions</b>					
Z1 Rural patrol along pigeon and Wai-iti streams Structure protection in pigeon valley Blackening out to 30m					
Z2 Structure protection in Teapot Valley Fire break from Bradley's gate up ridge to Golf Rd, along Watkins Lane and down ridge to sealed area of Golf Rd. Continue to construct mechanical break down track on peninsular in Z1 to Z2 (Cooks Rd area)					
Zulu 1 – Alpha div break to Barton Lane Zulu 2 – Barton lane to Yankee div break.					
<b>8. Division Communications</b>			<i>Phone</i>	<i>Radio Ch</i>	
Operations Manager ██████████			██████████		
<b>12. Prepared By:</b> ██████████			<b>Date/Time</b> 10/2/19 1900hrs		

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 10&11/2/2019 Time 1900 – 0700		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Atawhai		<b>4. Description</b>			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>		<b>Radio Ch</b>	
		[REDACTED]			
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
<i>Radio Ch</i>					
Night					
Tasman Smoke Chaser + 2px					
<b>7. Division Assignment/Special Instructions</b> Ground crew to continue to mop out and blacken out. Deeper seated spots need to be dug out.					
<b>8. Division Communications</b>				<i>Phone</i>	
<i>Radio Ch</i>					
Operations Manager		[REDACTED]		[REDACTED]	
<b>13. Prepared By:</b> [REDACTED]				<b>Date/Time</b> 10/2/19 1900hrs	

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 10&11/2/2019 Time 1900 – 0700		<b>DIVISION ASSIGNMENT</b> <small>RF204a</small>	
<b>3. Division</b> Structure protection		<b>4. Description</b> Functional division across Pigeon Valley Incident			
<b>5. Division Commander</b>	<i>Affiliation</i>	<i>Phone</i>		<i>Radio Ch</i>	
██████████		██████████			
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	<i>Radio Ch</i>
<b>7. Division Assignment/Special Instructions</b>					
<ul style="list-style-type: none"> <li>• Coordinate resources and response to meet requirements of the IAP work assignments as requested from logistics</li> <li>• Any activities within geographical divisions must be under the direction and control of the geographical division commander</li> <li>• Urban division also responsible for adequate rotation and replenishment of Urban crews</li> </ul>					
<b>8. Division Communications</b>				<i>Phone</i>	<i>Radio Ch</i>
Operations Manager		██████████	██████████	██████████	Fire 1/Cellphone
Air Division Commander		██████████		██████████	Fire 4/Cellphone
<b>14. Prepared By:</b> ██████████				<b>Date/Time</b> 10/2/19 1900hrs	

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 10&11/2/2019 Time 1900 – 0700		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Initial Attack		<b>4. Description</b> Functional division across Pigeon Valley Incident			
<b>5. Division Commander</b>	<i>Affiliation</i>	<i>Phone</i>		<i>Radio Ch</i>	
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	<i>Radio Ch</i>
<b>7. Division Assignment/Special Instructions</b>					
<ul style="list-style-type: none"> <li>Be available at FCP for immediate response to any new breakout or urgent support required</li> </ul>					
<b>8. Division Communications</b>				<i>Phone</i>	<i>Radio Ch</i>
Operations Manager		██████████		██████████	Fire 1/Cellphone
Air Division Commander		██████████		██████████	Fire 4/Cellphone
<b>15. Prepared By:</b> ██████████				<b>Date/Time</b> 10/2/19 1900hrs	

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 9&10/2/2019 Time 1900 - 0700			<b>AIR OPERATIONS PLAN</b> RF208	
<b>3. Personnel and Communications</b>						
<b>Position</b>	<b>Name</b>	<b>Affiliation</b>	<b>Phone</b>	<b>Radio Chan</b>		
Air Div Commander	[REDACTED]		[REDACTED]			
Air Division – Drone						
<b>4. Air Resource Assignments</b>						
<b>Pilot Name/ Company</b>	<b>Aircraft Type</b>	<b>Reg or Call sign</b>	<b>Assign- ment</b>	<b>Tactical Freq/Chan</b>	<b>Name</b>	<b>Telephone Numbers</b>
Interpine	RPAS / UAV	PINES1		Fire 4	[REDACTED]	
Interpine	RPAS / UAV	PINES2		Fire 4		
Usar	RPAS / UAV	PINES2		Fire 4		
<b>5. Location of Filling Points/Service Areas</b>						
<b>Name</b>				<b>Grid Reference</b>		
Heli base				-41.31777, 137.10987		
Fixed wing				41 22 39.9 S 173 05 04.6 E		
<b>6. Safety Notes / Hazards / Radio Coverage Limitations</b>						
<b>7. Air Operations Special Equip or Service</b>						
Drone operations						
1. Full perimeter survey of containment to 30m						
2. Atawhai – Full hotspot survey and aerial map before sunset						
3. Observation platform for Zulu overnight						
<b>8. Prepared By:</b> [REDACTED]				<b>Date/Time:</b> 10/2/19 1900hrs		

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1. Incident Name		2. Operational Period		COMMUNICATIONS	
Pigeon Valley		Date 10&11/2/2019 Time 1900 – 0700		PLAN	
				RF205	
<b>3. Radio Channels</b>					
<i>Assigned To</i>	<i>Function</i>	<i>Channel</i>	<i>Frequency</i>	<i>System</i>	
Command		Waimea 1	152.55000 RX 154.33125 TX		
Division Alpha	Operational	Fire 1	143.82500		
Division Zulu	Operational	Fire 2	143.78750		
Division Yankie	Operational	Fire 3	140.92500		
Division Xray	Operational	Fire 1	143.82500		
Division Bravo	Operational	Fire 2	143.78750		
Air Ops -Heli	Operational	Fire 4	140.61250		
Air Ops – Fixed Wing	Operational	Fire 10	140.98750		
Emergency		Waimea 1	152.55000 RX 154.33125 TX		
Resources		Waimea 1	152.55000 RX 154.33125 TX		
FireCom		FireCom			
2 Hourly - Sitrep		OPSR2	Use mobile if difficult coms to FCP		
<b>4. Telephone</b>					
<i>Assigned To</i>	<i>Landline</i>	<i>Cell phone</i>	<i>Fax</i>	<i>Comments</i>	
Emergency		111			
Regional Command Centre (RCC)					
<b>6. Other (e.g. email, Satphone, etc)</b>					
Resources	<a href="mailto:resources@FENZNelsonIMT.com">resources@FENZNelsonIMT.com</a>				
Safety	<a href="mailto:safety@FENZNelsonIMT.com">safety@FENZNelsonIMT.com</a>				
Logistics	<a href="mailto:logistics@FENZNelsonIMT.com">logistics@FENZNelsonIMT.com</a>				
PIM	<a href="mailto:pim@FENZNelsonIMT.com">pim@FENZNelsonIMT.com</a>				
Planning	<a href="mailto:planning@FENZNelsonIMT.com">planning@FENZNelsonIMT.com</a>				
Forward Control Point (FCP)	<a href="mailto:icu.nelson@fireemergency.nz">icu.nelson@fireemergency.nz</a>		[REDACTED]		
Situation / GIS / Intel	<a href="mailto:situation@FENZNelsonIMT.com">situation@FENZNelsonIMT.com</a>				
Operations	<a href="mailto:operations@FENZNelsonIMT.com">operations@FENZNelsonIMT.com</a>				
Photos and imagery	Join Facebook site; Pigeon Valley Fire - INTERNAL COMMS		<a href="https://www.facebook.com/groups/1924082991035550/">https://www.facebook.com/groups/1924082991035550/</a>		
6. Prepared by: [REDACTED]				Date/Time 10/2/19 1900hrs	

<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 9&10/2/2019 Time 1900 - 0700	<b>SAFETY PLAN</b> RF209
<b>3. General Safety Points</b> <p>Everyone is to be signed in and out of the fire ground through the Incident Control Point for both safety check and payment records (Complete DTR's).</p> <p>Maintain regular situation reports especially kestrel observations (containing all relevant information) via line supervisors.</p>		

LACES	Fire Orders	Watchouts
<b>L</b> - Lookout(s) <b>A</b> – Awareness – Anchor Point(s) <b>C</b> – Communication(s) <b>E</b> – Escape Route(s) <b>S</b> – Safety Zone(s)	<ol style="list-style-type: none"> <li>1. conditions and forecasts</li> <li>2. Know what your fire is doing at all times.</li> <li>3. Base all actions on current and expected fire behaviour of the fire.</li> <li>4. Identify escape routes and safety zones and make them known.</li> <li>5. <b>Post</b> lookouts when there is possible danger.</li> <li>6. <b>Stay</b> alert. Keep calm, Think clearly, act decisively.</li> <li>7. Maintain prompt communication with your crew/s, your supervisor and adjoining crews.</li> <li>8. Give clear instructions and ensure they are understood.</li> <li>9. Maintain control of your crew/s at all times.</li> <li>10. <b>Fight</b> fire aggressively having provided for safety first.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fire size is unknown (no size up).</li> <li>2. Unfamiliar territory</li> <li>3. Safety zones and escape routes not identified.</li> <li>4. Unfamiliar with weather and local factors influencing fire behaviour.</li> <li>5. No communications link with crew members or supervisor.</li> <li>6. Instructions and assignments not clear.</li> <li>7. Weather is getting hotter, drier and relative humidity dropping</li> <li>8. Wind increases and/or changes direction.</li> <li>9. Getting frequent spot fires across the line</li> <li>10. Working uphill or down wind of a fire</li> <li>11. Working on a steep slope</li> <li>12. Working in rugged terrain</li> <li>13. Can't see main fire</li> <li>14. In unburnt vegetation</li> <li>15. Walking through hot ashes</li> <li>16. Working alone</li> <li>17. Getting tired</li> <li>18. Working near power lines</li> <li>19. Working near machinery</li> <li>20. Working with aircraft</li> <li>21. Working around trees or spars</li> </ol>

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#### 4. Specific Safety Points

- All access points into fire are controlled. Only those authorized to enter and they must receive a briefing and be logged including time and point of access
- Public access managed by cordons
- Weather fire behaviour monitored for changes and communicated to crews. Use kestrels to gather weather data. Risk identified to crews.
- All crews to have adequate food, water, PPE to manage fatigue and hydration.
- Work rest periods enforced. Seek shade during rest period.
- Ensure nine-hour rest periods before returning to fire ground.
- Crews to have identified emergency escape routes and emergency plan in the event of harm. Meeting at pre-identified evacuation point once evacuated.
- All workers to ensure they are competent for the tasks and risks given.
- Air and ground crews to be isolated from risk areas during operations.
- Potential methane flares (Division Yankee) from Eves Valley Landfill. Avoid if possible.
- Avoid skid sites where stability of surface cannot be assured.
- Particular care in smoke, work in smoke and traveling in smoke.
- Ensure operational separation from Air-ops at forward command post
- Follow carpark signage at Forward command post
- Report all incidents and near misses to safety officer.
- Be sun smart, use hats and cover completely.
- Drive carefully in the vicinity of the Brightwater community
- Ensure under garments are flame resistant
- Forestry tracks & road speed 20 km/hr. Use beacons/ lights etc. Not response speed!
- Seat belts must be worn at all times
- Big trees with root plates compromised
- Ensure safe distance from felling machines (2 tree lengths ~ 80m minimum)
- Breakfast @ 0600-0800, Lunch @ 1100 – 1300, Dinner 1800 – 2000
- Fatigue campaign fire

5. Prepared By: [REDACTED]

Date/Time 10/2/19 1900hrs

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 10&11/2/2019 Time 1900 – 0700			<b>MEDICAL PLAN</b> RF206				
<b>3. First Aid Station</b> <i>Name</i>		<i>Location</i>		<i>Phone/Radio Channel</i>		<i>Paramedics available at Station</i>			
Each Crew must have available one First aid Level 1 Certified		Each crew							
Nelson 91 Ambulance		Forward command post		Waimea 1		1 Paramedic and 1 EMT			
<b>4. Transportation</b> <i>Ambulance Service</i>		<i>Address</i>		<i>Phone/Radio Channel</i>		<i>Paramedics available with Ambulance</i>			
Ambulance St Johns		Closest unit		111		Yes			
<b>5. Hospitals</b> <i>Hospital Name</i>		<i>Address</i>		<i>Phone</i>	<i>Travel Time</i> <i>Road</i>		<i>Air</i>	<i>Burn Unit</i>	<i>Heli Pad</i>
Nelson Public Emergency		Waimea Rd.		111	27m		4min	y	y
Hutt Hospital (Burn Unit)				111	n/a		40min	Y	y
<b>6. Special Emergency Procedures</b>									
St John will transport patients to whichever health facility is appropriate									
<b>7. Prepared By:</b> [REDACTED] Shift - Manager Nelson					<b>Date/Time</b> 10/2/19 1900hrs				
<b>8. Reviewed by Safety Advisor:</b> [REDACTED]					<b>Date/Time</b> 10/2/19 1900hrs				

<b>1. Incident Name</b> <b>Pigeon Valley</b>	<b>2. Operational Period</b> Date 10&11/2/2019 Time 1900 – 0700	<b>SHORT RANGE FORECAST</b>
<b>3. Download Avenza PDF Maps, Scan the Following Codes to Access Digital Maps</b>		

#### **4 pm Sunday – 6 am Monday**

**Rainfall:** None expected

**Sustained wind:** Currently around 20 km/h NE. Will gradually decrease and turn SW by 11pm, 10 km/h or less overnight.

**Wind gusts:** Gusts will gradually begin to decrease after 4:30pm. By 6pm gusts of up to 30 km/h are expected and these will continue decreasing thereafter to 15 km/h or less from 11pm onward.

**Temperature:** Decreasing to near 13°C early morning.

**Humidity:** 60% and increasing to near 95% after midnight.

#### **6 am – 6 pm Monday**

**Rainfall:** None expected

**Sustained wind:** Light (~ 5 km/h) W-SW in the morning, gradually increasing and becoming E-NE by 12pm through to 6pm. From 1pm onwards sustained winds could be up to 15 km/h.

**Wind gusts:** Gusts around 10 km/h at 6am gradually increasing up to 25 km/h by 12pm. From 1pm-6pm gusts up to 40 km/h are possible.

**Temperature:** A maximum of 24-24°C by early-to-mid-afternoon.

**Humidity:** 95% decreasing to 50% by 2pm and then slightly increasing to 60% by 6pm.

#### **Outlook for Tuesday**

**Rainfall:** Light showers possible but unlikely

**Sustained winds:** SW up to 10 km/h in the morning turning NE by 10am, increasing to up to 15 km/h by mid arvo. Winds turn SW again ~ 6pm due to frontal passage

**Wind gusts:** Afternoon gusts up to 35 km/h possible.

**Temperature:** Min: 13-15°C. Max: 25-26°C.

**Humidity:** Morning max 95%, afternoon min 50%

#### **Outlook for Wednesday**

**Rainfall:** None expected.

**Sustained winds:** W-SW, ~ 10km/ in the morning. Turning NE by mid-day and increasing to up to 15 km/h by late arvo.

**Wind gusts:** Afternoon gusts up to 40 km/h possible.

**Temperature:** Min: 13-15°C. Max: 26-27°C.

**Humidity:** Morning max 85%, afternoon min 50%

<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 10&11/2/2019 Time 1900 – 0700	<b>FIRE BEHAVIOUR FORECAST</b>
<b>3. Download Avenza PDF Maps, Scan the Following Codes to Access Digital Maps</b>		

**General Weather Overview**

**Tonight:** NE gradually turning SW by 10pm, 10 km/h or less. Gusts up to 30 km/h at 6pm, gradually decreasing thereafter to 15 km/h or less from 11pm onward. Temp Decreasing to near 13°C early morning. RH 70% and increasing to near 95% after midnight.

**Tomorrow** Cloud increasing through the day and NE winds dying out. RH reaching 50% mid afternoon and temperatures 23-25. Wind 20km with gusts to 40km

Fire weather @ 1300hrs											
Weather Station	Temp	RH	WD	WS	Prec	FFMC	DMC	DC	ISI	BUI	FWI
<b>Dovedale</b>											
Feb 9 Actual	23	64	NE	16	0	79	102	477	2.4	133	12.6
Feb 10 Forecast	22	68	NE	10	0	86	105	490	4.2	136	19.5

**General Fire Behaviour**

Similar burning conditions to Sunday but with significant peak activity in exposed areas and steeper slopes

Specific Fire Behaviour			
Fuel Type	Forecast	ROS/ Height (No Suppression)	Peak ROS / Flame height
Mature Pine	185m/hr	3.1m	3,000m/hr 11m
Grass (GC80%,H 0.1m,C100%)	760m/hr	1.6m	7,000m/hr 4.5m

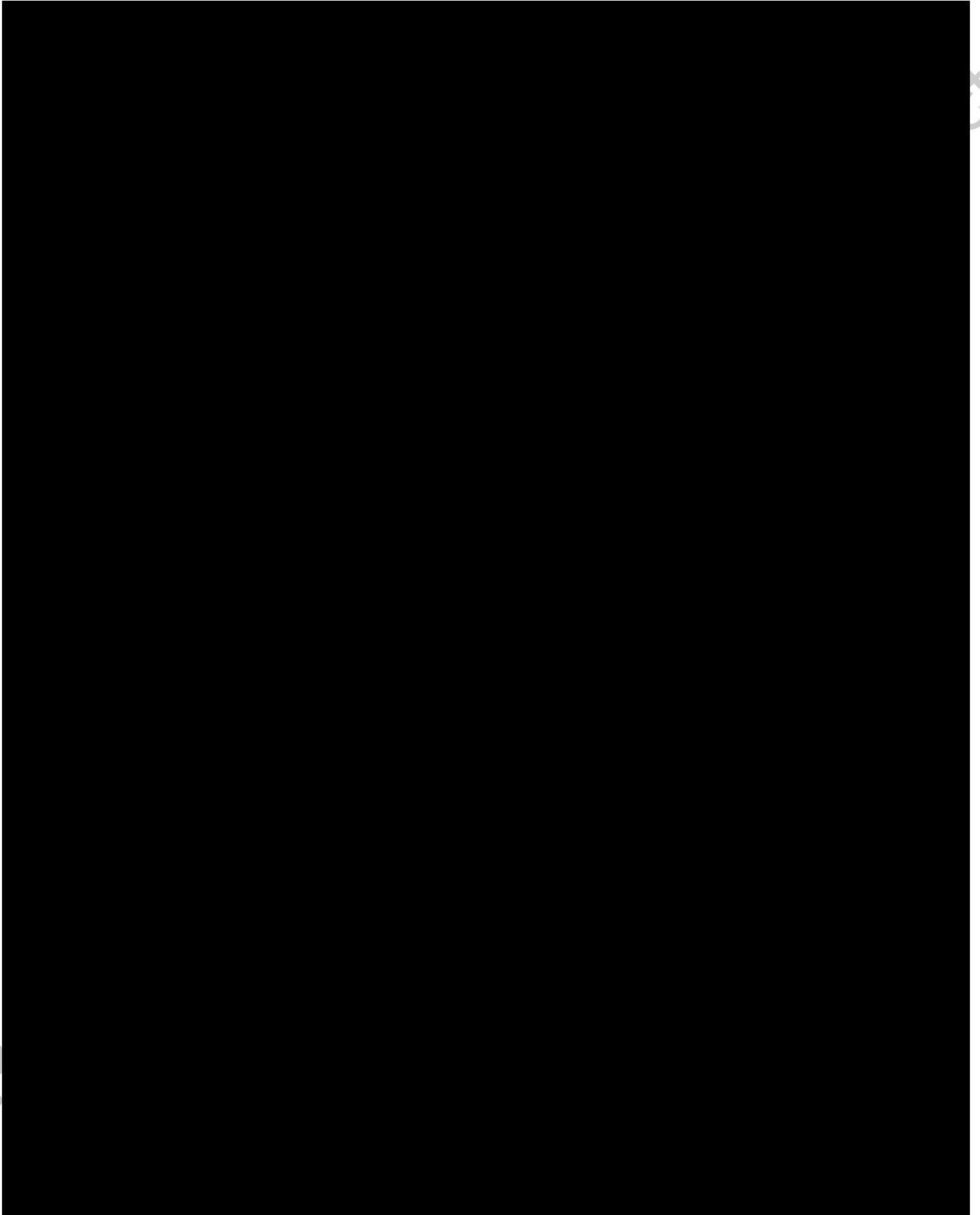
**Specific Notes**

Good opportunities for ground crew mop up through the morning. As the afternoon weather develops the ground crew mop up will become limited and the need for heavy equipment and air support will increase.

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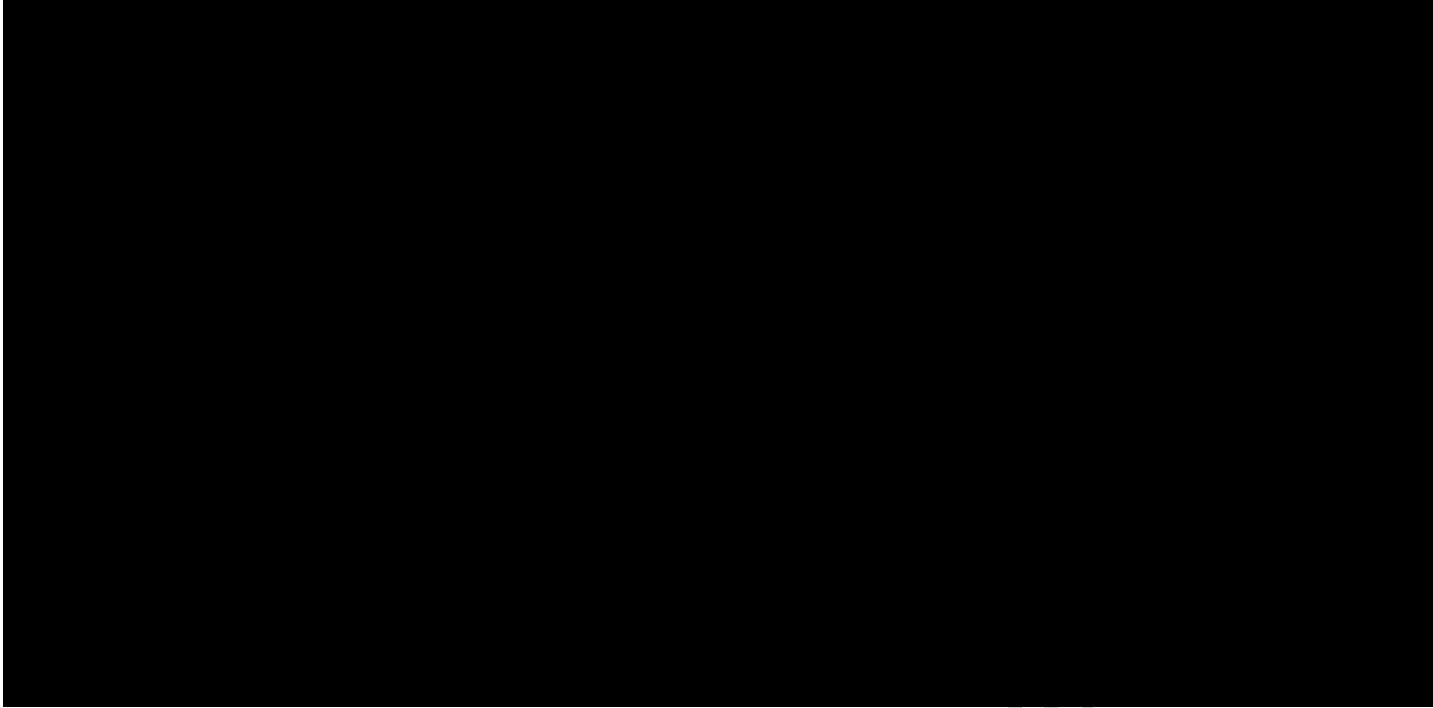


QR CODES FOR MAP DOWNLOAD



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**1. Incident Name**

Pigeon Valley Fire, Nelson

Date 10&amp;11/2/2019

Time 1900 – 0700

# Public Information Management Plan

## Overview of PIM response

The NIMT PIM team is working to support the Nelson Tasman Civil Defence PIM team. It is essential that the information coming in from the fire ground (with regards to FENZ operations) is collated by the NIMT Situation Unit and shared to the Civil Defence IMT - this is done through the PIM teams working collaboratively and assists in timely, accurate and relevant information to all stakeholders involved.

The overall PIM team is increasing personnel numbers.

## NIMT PIM team – for Sunday 10<sup>th</sup> February

PIM FENZ Manager – [REDACTED]

PIM Liaison – [REDACTED]

Media Officer – [REDACTED]

PIM Support – [REDACTED]

Social Media Manager, Community Liaison, Evac/Alerts – Civil Defence

The PIM Team roster is available from NIMT Logistics Manager.

## PIM meetings:

Ops Briefing 0700hrs  
Media Briefing #1 0830hrs  
Planning Meeting #1 0900hrs – to be confirmed  
Tactics Meeting 1100hrs  
Media Briefing #2 1600hrs – to be confirmed  
Planning Meeting #2 1700hrs

## Key Messages:

- **Attn Cordons:** Media should only be allowed access to cordoned areas and restricted sites if approved and accompanied by a member of the PIM Team. Please be diligent with allowing people through.
- Evacuations are still in place, for more information, go to [www.nelsontasmancivildefence.co.nz](http://www.nelsontasmancivildefence.co.nz)
- Evacuated residents should check in at the Civil Defence Welfare Centre located at the Saxton Field Stadium or call the Civil Defence Welfare helpline - 03 543 8400
- Media should contact the Media Officer for specific event information and media stand-up information.
- Fire safety messages are: Stay away from the area and follow authorities' instructions. Also help protect your property by creating a 'defensible zone' – Use compost, mulch and remove any section or yard waste materials.

- Donated items should be sealed, long-life foods and drink, drop off at Nelson Tasman District Council Office.

### FENZ Stakeholders and Audience Groups

Organisation	Detail	Name	Contact Info
FENZ Org (forward system to ELT, NCC, OCE and Board)	Requires regular updates – committed to 4x updates daily at 0830hrs, 1100hrs, 1500hrs and 1830hrs. Additionally a phone call every hour	RCC Christchurch	RCC R4 & R2, NCC, [REDACTED], [REDACTED], [REDACTED], Nelson Tasman CD Planning & Intel, NIMT Situation Unit, Comms Team
Evacuated Residents	Community Meeting – next one on Monday 11 <sup>th</sup> Feb @ 5.30pm, Appleby School.	Various	Comms through social media, Civil Defence website, welfare team and media.
Interested Public	Local community (not evacuated) and wider	Various	Social media posts, Civil Defence website, FENZ website, media outlets
Cordons	Managed by Police, kept updated via PIM team		Police Liaison in IMT
IMT and Support Staff	Information to help their roles	*See structure charts	Briefings, meetings, conversations between the teams, Sit Reps
Media Outlets	Require full-time management and contact	*See media list	

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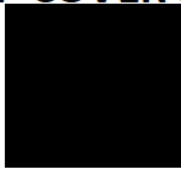
Direct message distribution	Details of the specific sites or types
Websites	Nelson Tasman Civil Defence - <a href="http://www.nelsontasmancivildefence.co.nz/">http://www.nelsontasmancivildefence.co.nz/</a> Fire and Emergency NZ <a href="http://www.fireandemergency.nz">www.fireandemergency.nz</a>
Social media	<b>Main channel is:</b> Nelson Tasman Civil Defence facebook page Fire and Emergency NZ facebook page Tasman-Malborough Fire Area facebook page
Helpline	Welfare Helpline – 03 543 8400
Information points	Cordons (located as per map)
Community contacts/meetings	Community Meeting Monday 11 <sup>th</sup> February – details TBC.
Media message distribution	Specific stations or publications
Radio	*See media list
TV	
Newspapers	
Media	Schedule
Media briefing/conferences	Media Stand Up at 0830hrs. Media Stand Up at 1600hrs. 2 hourly Media Releases
Media site visits	
Interviews	Regular interviews with FENZ personnel
Message monitoring	
Messaging is being monitored by Civil Defence PIM Team and dealt with / passed on accordingly. FENZ PIM team are supporting for Media management and FENZ / Operational information requiring to be gathered and shared.	

Prepared by: [REDACTED]

Date: 10/2/19 1900hrs

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Incident Name  Pigeon Valley	Operational Period	<b>IAP COVER SHEET</b>  RF199
	Date 11/2/2019 Time 0700 - 1900	

## INCIDENT ACTION PLAN

The items checked below are included in the incident Action Plan

- SITUATION REPORT
- INCIDENT OBJECTIVES
- ORGANISATIONAL LIST
- SECTOR ASSIGNMENT
- DIVISIONAL ASSIGNMENT
- AIR OPERATIONS PLAN
- COMMUNICATION PLAN
- SAFETY PLAN
- MEDICAL PLAN
- FIRE MAP
- WEATHER FORECAST AND MAP
- FIRE BEHAVIOUR FORECAST
- OVERVIEW MAPS AND DOWNLOAD QR CODES
- PUBLIC INFORMATION & MEDIA

<b>Approved by Incident Controller:</b>  Name 	<b>Signed</b> 	<b>Date/Time</b>  2000 110/2/19
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<b>1. Incident Name</b> <b>Pigeon Valley</b>	<b>2. Operational Period</b> Date 11/2/2019 Time 0700 - 1900	<b>SITUATION REPORT</b> RF201
<b>3. Location</b> Pigeon Rd, Eves Valley, Tasman	<b>4. Vegetation</b> Forest/Scrub/Grass/Slash/ Other:	
<p><b>Latest information as at 1800 10/2/2019:</b></p> <p>During the afternoon winds were gusting to 35km in exposed areas. The controlled burn was completed by 1530Hrs and crew patrols and monitoring are as the initiative scales down. The risk of toppling trees within the fireground is being addressed with 8 danger tree assessors sourced from local forestry crews working in pairs and distributed across the sectors. In ZULU sector above Wakefield the control lines were widened extensively with trees removed and taken away from the area. Plans for continued firebreaking work through the nightshift are in place. During the evening 3 drone crew's will be deployed initially tasked with assessing properties and assets with a view to increasing the likelihood of their owners return. They will then survey and assess the perimeter for hot spots to provide direction to ground operations for Monday. Air operations will assess the work program early tomorrow with a view to dropping equipment out of the operation should there not be adequate work. At the Atawhai strong northerlies prevailed through the afternoon.</p> <p>Through the evening the weather will ease and turn SW by 11pm with winds reducing to 10km or less. Monday WSW through the morning gradually increasing and becoming ENE by midday and through to 6pm. From 1-6pm gusts to 40km are possible. Fire weather indices BUI 136 ISI 4.2 and FWI 19.5 are forecast. Through the week the weather will warm and dry with temperatures in the high 20's and RH in the low 50's later in the week. Over the next 14 days there is very low probability of rain exceeding 5mm.</p> <p>Current resources working on the vegetation fire (day shift) are</p> <ul style="list-style-type: none"> <li>- 23 helicopters, two fixed wings plane, 1 drone team</li> <li>- 18 vegetation crews, and 11 structure crews (151 personnel)</li> <li>- 21 heavy machines (excavators and dozers) + additional 2 added at 0800hrs</li> <li>- 47 incident management staff.</li> </ul>		

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## 6. Assessment

A large scrub/ forest fire is currently burning, estimated to be over 2300ha as at 1200hrs on 9 Feb with a perimeter of 25km extending primarily in the pigeon valley area and north western boundary.

Last night 9.4km of the fire perimeter was surveyed by the USAR and Interpine Drone Teams. 1.9km is deemed to be contained (7.6% overall contained) and the other 7.5km was showing thermal activity within 30m of the fire perimeter.

Thursday afternoon, there was a breakout in an area where the fire retardant and aerial suppression wasn't effective in containing the fire. Fire spotting occurred in excess of 500m at times. Up until this morning, this breakout has burnt approximately 515ha of heavy fuels (pine forest). The fire behaviour has been mainly internal, burning throughout Friday, but has extended late evening and throughout the night along an 800m section north of Haytons Rd as the fire progressed upslope. This area has continued to cause concerns of containment throughout Saturday late afternoon. Drone infrared operations will be used throughout the night to capture intelligence that will assist ground operations.

Values at risk are life, and property.

Local crews and heavy machinery successfully protected nearby residential properties under very challenging fire conditions on Thursday. The fire is backed up on several structures close to the forest boundary on the south-east but is being protected by effective fire breaks which were established Thursday night. Machinery fire control lines now extend around 90% of sectors Zulu and Yankee.

Evacuation operations were conducted Friday across Wakefield based on predicted rates of spread in the event another breakout occurs and a front is generated. This was jointly decided between Police, Civil Defence and FENZ that evacuation of the Wakefield residents which incrementally commenced Friday afternoon. With the suppression effort the arrival of the fire at the Evacuation trigger points was delayed, with the fire reaching this point at 0030hr, Sat 9 Feb at night when favourable wind and weather conditions helped slow further progression.

A huge effort was invested in this area yesterday and continues today to allow this part of the fire to progressively burn down hill to the riverflats. To date, we have been successful in extinguishing the fire as it comes out of the pine plantation into the scrub and grassland.

A telecommunications site on the end of Cooks Rd (near Wakefield) is at risk with northerly wind. Two contingency mobile sites have been installed near Wakefield so that the communications at Wakefield will be maintained in the event the current site is damaged.

The fire that started on the 8 Feb at Atawhai Road, called Walters Bluff Fire, is now under control and is being wrapped up. Overhead, helicopters and ground crew were assigned to this fire and resources deployed were 5x helicopters, 4x urban and one rural appliance. Mopping-up operations continue with two crew and a field observer on site.

Rabbit Island confirmed at 3ha 650m perimeter and no longer staffed, but fire observers are monitoring. This will be flown for hotspots using infrared drones.

## 7. Action taken

Current resources for fire management currently working on the vegetation fire (days shift) are:

- 23 helicopters, two fixed wings plane, 1 drone team
- 18 vegetation crews, and 11 structure crews (151 personnel)
- 21 heavy machines (excavators and dozers) + additional 2 added at 0800hrs
- 47 incident management staff.

Helicopter resources continue targeting the breakout area on the southeast boundary bordering Wakefield and heavy machinery has established control lines on 95% of the boundary on sectors Zulu and Yankee. The fireline established was jumped at 0530hrs, and a secondary containment line is being constructed by fellerbunchers and heavy machinery. Ground resources in this sector are also focused on the 800m fireline of active fire intensity.

Felling machinery underway around the Eve's Valley mill, removing Euc trees.

Machinery and feller bunchers will continue felling larger trees, shifting logs and extending a contingency control line to enhance the fire break in anticipation of the easterly wind, which is forecasted for today on the western fire boundary. Fall back lines on the western boundary have had significant strengthening with work overnight and continuing today.

Fire observers continued working throughout fire-grounds including providing helicopter observation of areas which have potential for spotting.

Black out work, machine fire breaking and hot spot targeting has continued on the other parts of the fire ground.

Thursday we established a No-Fly Zone over the fire ground, this will be in place until Monday 5pm. The No-Fly zone is to 3000m and 3km from the red zone.

Three drone teams surveyed the fire lines overnight Saturday, to look at extent of containment lines and have updated this morning. We should be able to provide percentages of progress later today.

Additional structure crews and appliances, plus vegetation crews and other resources to facilitate rotation of crews for fatigue management.

A fire observer has continued to monitor the Atawhai Road fire.

Dozer control lines have contained around 92% of the perimeter to a minimum width of 6m, with greater than 10m. We now have a control line extending around the fire perimeter made up of Dozer lines, roadway and river bed.

The plan for a controlled understorey burn on the Cuthill sector has been undertaken today. A media release was timed to go out at the time of ignition.

During the late afternoon yesterday, there was a significant increase in fire activity in the Zulu Div near Cooks Rd, which resulted in a growth of the fire perimeters. This "slop over" was under control by dark yesterday. The area has been measured by drones overnight and amounts to 3ha.

**8. Factors**

Extreme fire conditions. Limited natural water supply. Steep terrain. Highly flammable complex dense vegetation with shrub understorey and ladders fuels throughout. Forecasted winds will again turn northerly to 20km by afternoon with gusts predicted to 40 kph. The wind strength and smoke are proving challenging for aerial operations at times.

FENZ, Civil Defence and Police engaged positively with local iwi and tangata whenua today with no concerns.

Relative humidity is tracking as expected for Sunday with higher temperatures than yesterday. We are expecting more active fire behaviour over the fire grounds later this afternoon, especially in Zulu Division.

**9. Predicted Incident Development**

Weather forecasts are being updated every two hours, so we always have current information.

Through the evening the weather will ease and turn SW by 11pm with winds reducing to 10km or less. Monday WSW through the morning gradually increasing and becoming ENE by midday and through to 6pm. From 1-6pm gusts to 40km are possible. Fire weather indices BUI 136 ISI 4.2 and FWI 19.5 are forecast. Through the week the weather will warm and dry with temperatures in the high 20's and RH in the low 50's later in the week. Over the next 14 days there is very low probability of rain exceeding 5mm.

**10. Prepared by:** [REDACTED]

**Date/Time:**

**Authorised by** [REDACTED] **(Incident Controller)**

1800hrs 10th Feb 2019

Released under the Official Information Act

<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 11/2/2019 Time 0700 - 1900	<b>INCIDENT OBJECTIVES</b> RF202
<b>3. Overall Incident Objectives</b> <ol style="list-style-type: none"> <li>1. Ensure the safety of responders and public at all times during the incident</li> <li>2. Minimise the impact on structures, infrastructure, assets and values during the incident</li> <li>3. Minimise impact on environment, culture and historic values during the incident</li> <li>4. Ensure communication and information, liaison with stakeholders/ community/ public/ government bodies and affected parties is timely, meets standards and requirements at all times during the incident</li> <li>5. Report on costs on a daily basis by 1800</li> <li>6. Return community to homes/normal life as soon as practicable</li> <li>7. Investigate cause (including protect initial ignition site and evidence)</li> </ol>		
<b>4. Strategies to meet objectives</b> <ol style="list-style-type: none"> <li>1. Create a safety plan and safety briefing for all staff and contractors. Monitor fire behaviour and establish triggers and cordons for withdrawals and evacuation.</li> <li>2. Use media, trusted community channels and stakeholders to establish communications and engagements. Establish regular briefings and updates.</li> <li>3. Identify critical infrastructure, assets and values. Structures have structure protection crews and technical liaison where required. Water courses and dip sites identified with environmental protection.</li> <li>4. Cultural/Historical/environmental values identified on incident ground (Actual and projected)</li> <li>5. Assign fire investigation to determine cause</li> <li>6. Financial reporting established and continued</li> <li>7. Create a recovery plan with community and stakeholders to assist post incident. <ul style="list-style-type: none"> <li>• Consider operation delivery to minimise impacts in support of the recovery plan.</li> </ul> </li> </ol>		
Specific operational tasks for this shift to meet objectives <ul style="list-style-type: none"> <li>• Crew blacking out to 30m in 10m increments</li> <li>• Patrol, and monitor all fire edges, focusing on prescribed burn in Zulu 1 and Eder and Cuthill roads</li> <li>• Urban appliances tasked for protection of identified structures and assets including cell phone towers, dairy farms and structures in Drones Rd, Teapot Valley, Pigeon Valley and Mill.</li> <li>• Heavy Machinery to create and strengthen firebreaks – focusing on Heine’s and Foxes Rd. New breaks on Golf Rd linkages</li> <li>• Tree Felling around Mill safe to do so</li> <li>• Initial Attack crew on standby from FOP</li> <li>• Aircraft to support ground operations</li> </ul>		
<b>5. Prepared by:</b> ██████████	<b>Date/Time: 1900 8/2/19</b>	



		Phone	Radio Ch
<b>6. Logistics Section</b>			
Logistics Manager	██████████ (NMIT)	██████████	
Supply Unit	██████████		
	██████████		
	██████████		
Catering Unit			
Facilities Unit	██████████		
	██████████		
Finance Unit	██████████		
Communications Unit	██████████		
Medical Unit	██████████		
<b>7. Operations Section</b>			
Operations Manager	██████████		
Deputy Ops Manager	██████████		
Ops planning Manager	██████████		
Division Alpha	██████████		
Division Xray	██████████		
Division Yankee	██████████		
Division Zulu	██████████		
Division Atawhai	██████████		
Air Division Commander	██████████		
Air Attack Supervisor	██████████		
	██████████		
Air Attack Supervisor(Trainee)	██████████		
Air Support Supervisor	██████████		
	██████████		
<b>8. Prepared by:</b> ██████████		<b>Date/Time:</b> 1900 10/2/19	

Released under Information Act

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 11/2/2019 Time 0700 - 1900		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Alpha		<b>4. Description</b> Point of ignition to Dove Saddle on Eder Rd			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>	<b>Radio Ch</b>		
██████████		██████████	Command: Fire Crew: Simplex		
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
<i>Radio Ch</i>					
Bulldozer D7		TLC			
Excavator 20 T		TLC			
JNL + 4 PX					
Ngatimoti 5325 Smoke Chaser +2					
Doc Hauraki 5px					
Rai Silviculture 16px					
Tasman 2 tanker					
DOC S. Canterbury 8px					
Dangerous Tree Assessor 4px					
<p><b>A1</b> Dozer to continue to widen Rout Rd. Smoke chaser and crews blacking out to 30 m in 10m increments along perimeter where possible and safe. Structure protection in Sharps Rd Valley area</p> <p><b>A2</b> Push new line down Eder Rd to 6.5km mark then down the prominent ridge to Forestry Rd and down to A1/A2 boundary Mop up with ground crews from yesterdays burn</p> <p><b>DTA</b> – Assess, mark and gps all hazardous trees with a particularly focus around structures and within 60m of roads and 60m from the black edge. To work ahead of ground crews.</p> <p><b>Helicopters to support ground crews. Division Commanders to call Air Attack on Channel VHF 4 to request</b></p> <p>Alpha 1 - Div break to Ford on Sharps Rd Alpha 2 – From ford on Sharps rd to Cuthill Johnsons Rd intersection (updated Div break)</p>					
<b>8. Division Communications</b>			<b>Phone</b>	<b>Radio Ch</b>	
Operations Manager		██████████	██████████	Fire 1/Cellphone	
Air Division Commander		██████████	██████████	Fire 4/Cellphone	
<b>9. Prepared By:</b> ██████████			<b>Date/Time</b> 1900 10/2/19		

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 11/2/2019 Time 0700 - 1900		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Xray		<b>4. Description</b> Division from Cut hill Johnsons Rd to CHH saw mill			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>	<b>Radio Ch</b>		
██████████		██████████	Fire 5		
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
<i>Radio Ch</i>					
DOC Blenheim - USA 1 12px					
D155 Dozer					
Nicholson Tanker		13,000 L			
Excavators x4					
Appleby Tanker					
Smoke Chaser Wainui 3px					
NZDF RFA x7px					
Invercargill Crew + 5 PX					
Otago Crew + 5 PX					
Wainui 9572 5px					
Dangerous Tree Assessor 4px					
<p>X1 Mop up with ground crews following yesterdays burn. Continue widening and patrolling Cut Hill Rd to Moutere saddle and assist on Johnsons Rd if required</p> <p>X2 Check and enhance perimeter around structures. Ground crews to mop up and patrol.</p> <p>X3 Monitor only, no operations required at this stage.</p> <p><b>DTA</b> – Assess, mark and gps all hazardous trees with a particularly focus around structures and within 60m of roads and 60m from the black edge. To work ahead of ground crews.</p> <p>Helicopters to support ground operations as required. Division Commanders to call Air attack on VHF 4 with requirements</p> <p>Xray 1 – Cuthill/Johnsons Red intersection (new Div break) to 5423000/1603000  Xray 2 - 5423000/1603000 to intersection of Redwood Valley Rd and Red Stage lane  Xray 3 - Redwood Valley Rd and Red Stage lane to Yankee div break</p>					
<b>8. Division Communications</b>				<b>Phone</b>	
				<b>Radio Ch</b>	
Operations Manager		██████████		██████████	
Air Division Commander		██████████		██████████	
				Fire 1/Cellphone	
				Fire 4/Cellphone	
<b>10. Prepared By:</b> ██████████				<b>Date/Time</b> 1900 10/2/19	



<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 11/2/2019 Time 0700 - 1900		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Yankee		<b>4. Description</b> Bennets Road to CHH saw mill at Eves Valley			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>	<b>Radio Ch</b>		
██████████	Wakefield VFB	██████████	Fire 3		
<b>6. Resources Assigned this Period</b>					
<b>Sector</b>		<b>Supervisor</b>		<b>Crews</b>	
2x Excavator 20T		Taylors			
Bulldozer D8		Taylors			
Brightwater 5026 + 4px					
Rural Tanker Downers + 1px					
Brightwater 5071 + 3px					
Wanuiomata 441 5px					
Richmond 331 4x					
Ngatimoti 5375 + 4px					
Wellington 2 + 5 PX					
West Coast 8 PX And Smoke Chaser and Tanker					
Dangerous Tree Assessor 4px					
<p>Y1 Push fire line in from Eder Rd and continue to widen Eder Rd Monitor existing fire break</p> <p>Y2 Continue felling Eucalyptus trees around Eves Valley Mill Protect Mill and surrounding structures</p> <p>Helicopters to support ground operations as required. Division Commanders to call Air attack on VHF 4 with requirements</p> <p><b>DTA</b> – Assess, mark and gps all hazardous tress with a particularly focus around structures and within 60m of roads and 60m from the black edge.</p> <p>Yankee 1 – South edge of mill to div break at Zulu Yankee 2 – Xray div break to south edge of the mill</p>					
<b>8. Division Communications</b>				<b>Phone</b>	<b>Radio Ch</b>
Operations Manager		██████████	██████████	Fire 1/Cellphone	
Air Division Commander		██████████	██████████	Fire 4/Cellphone	
<b>11. Prepared By:</b> ██████████				<b>Date/Time</b> 1900 10/2/19	

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 11/2/2019 Time 0700 - 1900		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Zulu		<b>4. Description</b> Point of ignition to CHH saw mill			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>	<b>Radio Ch</b>		
██████████		██████████	Fire 2		
<b>6. Resources Assigned this Period</b>					
<b>Sector</b>		<b>Supervisor</b>		<b>Crews</b>	
<b>Radio Ch</b>					
4x Excavator 20T		TLC			
D65 Dozer		██████████			
Watertanker					
Pumicelands 7px					
South Canterbury 10px					
Lake Rotoiti + 4 PX					
Newlands 291 4px					
NZDF RFA 3px					
Wellington 1 + 5 PX					
Auckland 1 5px					
Tapawera 4wd tanker					
Dangerous Tree Assessor 4px					
<p>Z1 Protection of cell tower with aircraft only  Maintain mobility in this sector react to any break out (smoke chasers, 4wd tankers). Prioritise this area due to large number of structures.  Strengthen vegetation break between Pigeon Creek and vehicle/machinery yard and continue to the North to the road near the small bridge across dry creek.</p> <p>Z2 Check access into and petrol McCalls, Tea Pot Valley and Bennits Roads.  Protection of dairy farm and structures  Ground crews continue to mop up.  Protection of structures near top of Drones by extending defensible space.</p> <p><b>DTA</b> – Assess, mark and gps all hazardous tress with a particularly focus around structures and within 60m of roads and 60m from the black edge. To work ahead of ground crews.</p> <p>Helicopters to support ground operations as required. Division Commanders to call Air attack on VHF 4 with requirements</p> <p>Zulu 1 – Alpha div break to Barton Lane  Zulu 2 – Barton lane to Yankee div break.</p>					
<b>8. Division Communications</b>				<b>Phone</b>	<b>Radio Ch</b>
Operations Manager		██████████	██████████	Fire 1/Cellphone	
Air Division Commander		██████████	██████████	Fire 4/Cellphone	
<b>12. Prepared By:</b> ██████████				<b>Date/Time</b> 1900 10/2/19	

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 11/2/2019 Time 0700 - 1900		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Atawhai		<b>4. Description</b>			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>		<b>Radio Ch</b>	
██████████	FENZ	██████████			
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
<i>Radio Ch</i>					
Hawkes Bay Crew – 5px					
716 smoke chaser					
Dangerous Tree Assessor 2px					
<b>7. Division Assignment/Special Instructions</b>					
Ground crews continue to mop up and blacken out.					
Deeper seated spots will need to be dug out.					
<b>DTA</b> – Assess, mark and gps all hazardous tress with a particularly focus around structures and within 60m of roads and 60m from the black edge.					
<b>8. Division Communications</b>				<i>Phone</i>	
Operations Manager _____				<i>Radio Ch</i>	
<b>13. Prepared By:</b> ██████████				<b>Date/Time 1900 10/2/2019</b>	

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 11/2/2019 Time 0700 - 1900		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Structure protection		<b>4. Description</b> Functional division across Pigeon Valley Incident			
<b>5. Division Commander</b>	<i>Affiliation</i>	<i>Phone</i>		<i>Radio Ch</i>	
██████████		██████████			
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
<i>Radio Ch</i>					
Nelson 212 4px					
Nelson 213 4px					
Takaka 391 4px					
Nelson 2118 2px					
2 excitative offices					
<b>7. Division Assignment/Special Instructions</b>					
<ul style="list-style-type: none"> <li>• Coordinate resources and response to meet requirements of the IAP work assignments as requested from logistics</li> <li>• Any activities within geographical divisions must be under the direction and control of the geographical division commander</li> <li>• Urban division also responsible for adequate rotation and replenishment of Urban crews</li> </ul>					
<p><b>NB Additional resources are available through firecom if required</b></p>					
<b>8. Division Communications</b>				<i>Phone</i>	
				<i>Radio Ch</i>	
Operations Manager		██████████		██████████	
Air Division Commander		██████████		██████████	
				Fire 1/Cellphone	
				Fire 4/Cellphone	
<b>14. Prepared By:</b> ██████████				<b>Date/Time</b> 1900 10/2/19	

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 11/2/2019 Time 0700 - 1900		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Initial Attack		<b>4. Description</b> Functional division across Pigeon Valley Incident			
<b>5. Division Commander</b>	<i>Affiliation</i>	<i>Phone</i>		<i>Radio Ch</i>	
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	<i>Radio Ch</i>
<b>7. Division Assignment/Special Instructions</b>					
<ul style="list-style-type: none"> <li>Be available at FCP for immediate response to any new breakout or urgent support required</li> </ul>					
<b>8. Division Communications</b>				<i>Phone</i>	<i>Radio Ch</i>
Operations Manager		██████████		██████████	Fire 1/Cellphone
Air Division Commander		██████████		██████████	Fire 4/Cellphone
<b>15. Prepared By:</b> ██████████				<b>Date/Time</b> 1900 10/2/19	

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 11/2/2019 Time 0700 - 1900		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> Property Assessments		<b>4. Description</b> Functional division across Pigeon Valley Incident			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>		<b>Radio Ch</b>	
<b>6. Resources Assigned this Period</b>					
<b>Sector</b>		<b>Supervisor</b>		<b>Crews</b>	
<b>Radio Ch</b>					
██████████		FENZ Liaison			
<b>7. Division Assignment/Special Instructions</b>					
<ol style="list-style-type: none"> <li>The property assessments are being planned and completed to ensure the safety of responders and residents during visitation and reoccupation. Fire danger risk assessments will be completed for each property, surrounding area and access routes. The risk assessments will include work on danger trees, condition of surrounding flammable fuels and built structures. These will be reviewed in relation to incident status and predicted weather.</li> <li>The assessments will include staff from Civil defence, FENZ and specialist contractors as required.</li> <li>Liaison communications will be maintained with division commanders at all times when on the incident ground</li> <li>Timeline for the assessments to be confirmed</li> </ol>					
<b>8. Division Communications</b>				<b>Phone</b>	
<b>Radio Ch</b>					
Operations Manager		██████████		██████████	
				Fire 1/Cellphone	
Air Division Commander		██████████		██████████	
				Fire 4/Cellphone	
<b>16. Prepared By:</b> ██████████				<b>Date/Time</b> 1900 8/2/19	

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<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b>	Date 11/2/2019 Time 0700 - 1900	<b>AIR OPERATIONS PLAN</b> RF208
<b>3. Personnel and Communications</b>			
<b>Position</b>	<b>Name</b>	<b>Affiliation</b>	<b>Phone</b>
Air Div Commander	[REDACTED]		
Air Attack Supervisor	[REDACTED]		Fire 4
	[REDACTED]		
	[REDACTED]		
Air Attack Supervisor(Trainee)	[REDACTED]		
Air Support Supervisor	[REDACTED]		
	[REDACTED]		
Lead Helicopter Pilot	[REDACTED]		
Lead Fixed-Wing Pilot			
<b>5. Location of Filling Points/Service Areas</b>			
<b>Name</b>		<b>Grid Reference</b>	
Heli base		-41.31777, 137.10987	
Fixed wing		41 22 39.9 S 173 05 04.6 E	
<b>6. Safety Notes / Hazards / Radio Coverage Limitations</b>			
<b>7. Air Operations Special Equip or Service</b>			
<ul style="list-style-type: none"> <li>Retardent filling crew (Fixed Wing) - [REDACTED]</li> <li>Bryant Earthworks - [REDACTED] <ul style="list-style-type: none"> <li>2x dip trucks</li> <li>1x dip truck and trailer</li> <li>5x support tankers</li> </ul> </li> </ul>			
<b>8. Prepared By:</b> [REDACTED]		<b>Date/Time:</b> 1900 8/2/19	

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Company Name	Aircraft Type	Rego/Call Sign	Pilots Name	Bucket Size	Contact Number	Availability
<b>Rotary</b>						
Beck's	UH-1	HHF	[REDACTED]	1500L	[REDACTED]	Available
	UH-1	HHB		1500L		Available
Helicharter	500D	HXX		500L		Available
Garden City Heli	B3	IHL		1100L		Available
	EC130	IGF		1000L		Available
	BK	IVB		1100L		Available
Reid Heli	B2	HPE		900L		Available
	FX2	HEX		1000L		Available
	B2	HAA		1000L		Available
	B2	IOR		Platform		Available
Southern Heli Lift	UH-1L	HUE		1500L		Available
Marlborough Heli	Long Ranger	HTA		650L		Available
Skyworks	B3	HWW		1050L		Available
Amuri Heli	FX2	HJM		1000L		Available
Anderson	B2	HKA		1000L		Available
Independent Heli	EC130	IWS		1000L		Available
Christchurch Heli	B2	HNC		1000L		Available
Wanaka Heli	B2	HFF		1000L		Available
Mt Hutt Heli	BA	HYS		700L		Relief Aircraft
	BA	HDQ		700L		Available
Heliventures	B2	IER	1000L	Available		
Murchison Heli	BA	ILW	680L/Platform	Available		
Wellington Heli	EC130	IWN	880L	14hrs remaining		
<b>Fixed Wing</b>						
[REDACTED]	Cresco		[REDACTED]		[REDACTED]	Available
[REDACTED]	Airtractor		[REDACTED]		[REDACTED]	Available
<b>Drone</b>						
Interpine	RPRS/UAV	PINES1	[REDACTED]		[REDACTED]	
Interpine	RPRS/UAV	PINES2	[REDACTED]		[REDACTED]	
USAR	RPRS/UAV	PINES2	[REDACTED]		[REDACTED]	

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 11/2/2019 Time 0700 - 1900		<b>COMMUNICATIONS PLAN</b> RF205	
<b>3. Radio Channels</b>					
<b>Assigned To</b>	<b>Function</b>	<b>Channel</b>	<b>Frequency</b>	<b>System</b>	
Command		Waimea 1	152.55000 RX 154.33125 TX		
Division Alpha	Operational	Fire 1	143.82500		
Division Zulu	Operational	Fire 2	143.78750		
Division Yankee	Operational	Fire 3	140.92500		
Division Xray	Operational	Fire 1	143.82500		
Air Ops -Heli	Operational	Fire 4	140.61250		
Air Ops – Fixed Wing	Operational	Fire 10	140.98750		
Emergency		Waimea 1	152.55000 RX 154.33125 TX		
Resources		Waimea 1	152.55000 RX 154.33125 TX		
FireCom		FireCom			
2 Hourly - Sitrep		OPSR2	Use mobile if difficult coms to FCP		
<b>4. Telephone</b>					
<b>Assigned To</b>	<b>Landline</b>	<b>Cell phone</b>	<b>Fax</b>	<b>Comments</b>	
Emergency		111			
Regional Command Centre (RCC)					
<b>6. Other (e.g. email, Satphone, etc)</b>					
Resources	<a href="mailto:resources@FENZNelsonIMT.com">resources@FENZNelsonIMT.com</a>				
Safety	<a href="mailto:safety@FENZNelsonIMT.com">safety@FENZNelsonIMT.com</a>				
Logistics	<a href="mailto:logistics@FENZNelsonIMT.com">logistics@FENZNelsonIMT.com</a>				
PIM	<a href="mailto:pim@FENZNelsonIMT.com">pim@FENZNelsonIMT.com</a>				
Planning	<a href="mailto:planning@FENZNelsonIMT.com">planning@FENZNelsonIMT.com</a>				
Forward Control Point (FCP)	<a href="mailto:icu.nelson@fireemergency.nz">icu.nelson@fireemergency.nz</a>			[REDACTED]	
Situation / GIS / Intel	<a href="mailto:situation@FENZNelsonIMT.com">situation@FENZNelsonIMT.com</a>				
Operations	<a href="mailto:operations@FENZNelsonIMT.com">operations@FENZNelsonIMT.com</a>				
Photos and imagery	Join Facebook site; Pigeon Valley Fire - INTERNAL COMMS			<a href="https://www.facebook.com/groups/1924082991035550/">https://www.facebook.com/groups/1924082991035550/</a>	
<b>6. Prepared by:</b> [REDACTED]				<b>Date/Time</b> 1900 8/2/19	

<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 11/2/2019 Time 0700 - 1900	<b>SAFETY PLAN</b> RF209
<b>3. General Safety Points</b> <p>Everyone is to be signed in and out of the fire ground through the Incident Control Point for both safety check and payment records (Complete DTR's).</p> <p>Maintain regular situation reports especially kestrel observations (containing all relevant information) via line supervisors.</p>		

LACES	Fire Orders	Watchouts
<b>L</b> - Lookout(s) <b>A</b> – Awareness – Anchor Point(s) <b>C</b> – Communication(s) <b>E</b> – Escape Route(s) <b>S</b> – Safety Zone(s)	<ol style="list-style-type: none"> <li>1. conditions and forecasts</li> <li>2. Know what your fire is doing at all times.</li> <li>3. Base all actions on current and expected fire behaviour of the fire.</li> <li>4. Identify escape routes and safety zones and make them known.</li> <li>5. <b>Post</b> lookouts when there is possible danger.</li> <li>6. <b>Stay</b> alert. Keep calm, Think clearly, act decisively.</li> <li>7. Maintain prompt communication with your crew/s, your supervisor and adjoining crews.</li> <li>8. Give clear instructions and ensure they are understood.</li> <li>9. Maintain control of your crew/s at all times.</li> <li>10. <b>Fight</b> fire aggressively having provided for safety first.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fire size is unknown (no size up).</li> <li>2. Unfamiliar territory</li> <li>3. Safety zones and escape routes not identified.</li> <li>4. Unfamiliar with weather and local factors influencing fire behaviour.</li> <li>5. No communications link with crew members or supervisor.</li> <li>6. Instructions and assignments not clear.</li> <li>7. Weather is getting hotter, drier and relative humidity dropping</li> <li>8. Wind increases and/or changes direction.</li> <li>9. Getting frequent spot fires across the line</li> <li>10. Working uphill or down wind of a fire</li> <li>11. Working on a steep slope</li> <li>12. Working in rugged terrain</li> <li>13. Can't see main fire</li> <li>14. In unburnt vegetation</li> <li>15. Walking through hot ashes</li> <li>16. Working alone</li> <li>17. Getting tired</li> <li>18. Working near power lines</li> <li>19. Working near machinery</li> <li>20. Working with aircraft</li> <li>21. Working around trees or spars</li> </ol>

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#### 4. Specific Safety Points

- All access points into fire are controlled. Only those authorized to enter and they must receive a briefing and be logged including time and point of access
- Public access managed by cordons
- Weather fire behaviour monitored for changes and communicated to crews. Use kestrels to gather weather data. Risk identified to crews.
- All crews to have adequate food, water, PPE to manage fatigue and hydration.
- Work rest periods enforced. Seek shade during rest period.
- Ensure nine-hour rest periods before returning to fire ground.
- Crews to have identified emergency escape routes and emergency plan in the event of harm. Meeting at pre-identified evacuation point once evacuated.
- All workers to ensure they are competent for the tasks and risks given.
- Air and ground crews to be isolated from risk areas during operations.
- Potential methane flares (Division Yankee) from Eves Valley Landfill. Avoid if possible.
- Avoid skid sites where stability of surface cannot be assured.
- Particular care in smoke, work in smoke and traveling in smoke.
- Ensure operational separation from Air-ops at forward command post
- Follow carpark signage at Forward command post
- Report all incidents and near misses to safety officer.
- Be sun smart, use hats and cover completely.
- Drive carefully in the vicinity of the Brightwater community
- Ensure under garments are flame resistant
- Forestry tracks & road speed 20 km/hr. Use beacons/ lights etc. Not response speed!
- Seat belts must be worn at all times
- Big trees with root plates compromised
- Ensure safe distance from felling machines (2 tree lengths ~ 80m minimum)
- Breakfast @ 0600-0800, Lunch @ 1100 – 1300, Dinner 1800 – 2000
- Fatigue campaign fire

5. Prepared By: [REDACTED]

Date/Time 1900 9/2/19

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 11/2/2019 Time 0700 - 1900		<b>MEDICAL PLAN</b> RF206			
<b>3. First Aid Station Name</b>		<b>Location</b>	<b>Phone/Radio Channel</b>	<b>Paramedics available at Station</b>			
Each Crew must have available one First aid Level 1 Certified		Each crew					
Nelson 91 Ambulance		Forward command post	Waimea 1	1 Paramedic and 1 EMT			
<b>4. Transportation Ambulance Service</b>		<b>Address</b>	<b>Phone/Radio Channel</b>	<b>Paramedics available with Ambulance</b>			
Ambulance St Johns		Closest unit	111	Yes			
<b>5. Hospitals</b>		<b>Address</b>	<b>Phone</b>	<b>Road</b>	<b>Travel Time</b>	<b>Burn Unit</b>	<b>Heli Pad</b>
<b>Hospital Name</b>				<b>Air</b>			
Nelson Public Emergency	Waimea Rd.	111	27m	4min	y	y	
Hutt Hospital (Burn Unit)		111	n/a	40min	Y	y	
<b>6. Special Emergency Procedures</b>							
St John will transport patients to whichever health facility is appropriate							
<b>7. Prepared By:</b> [REDACTED] Shift - Manager Nelson			<b>Date/Time</b> 1900 8/2/19				

<b>1. Incident Name</b> <b>Pigeon Valley</b>	<b>2. Operational Period</b> Date 11/2/2019 Time 0700 - 1900	<b>SHORT RANGE FORECAST</b>
<b>3. Download Avenza PDF Maps, Scan the Following Codes to Access Digital Maps</b>		

#### **4 pm Sunday – 6 am Monday**

**Rainfall:** None expected

**Sustained wind:** Currently around 20 km/h NE. Will gradually decrease and turn SW by 11pm, 10 km/h or less overnight.

**Wind gusts:** Gusts will gradually begin to decrease after 4:30pm. By 6pm gusts of up to 30 km/h are expected and these will continue decreasing thereafter to 15 km/h or less from 11pm onward.

**Temperature:** Decreasing to near 13°C early morning.

**Humidity:** 60% and increasing to near 95% after midnight.

#### **6 am – 6 pm Monday**

**Rainfall:** None expected

**Sustained wind:** Light (~ 5 km/h) W-SW in the morning, gradually increasing and becoming E-NE by 12pm through to 6pm. From 1pm onwards sustained winds could be up to 15 km/h.

**Wind gusts:** Gusts around 10 km/h at 6am gradually increasing up to 25 km/h by 12pm. From 1pm-6pm gusts up to 40 km/h are possible.

**Temperature:** A maximum of 24-24°C by early-to-mid-afternoon.

**Humidity:** 95% decreasing to 50% by 2pm and then slightly increasing to 60% by 6pm.

#### **Outlook for Tuesday**

**Rainfall:** Light showers possible but unlikely

**Sustained winds:** SW up to 10 km/h in the morning turning NE by 10am, increasing to up to 15 km/h by mid arvo. Winds turn SW again ~ 6pm due to frontal passage

**Wind gusts:** Afternoon gusts up to 35 km/h possible.

**Temperature:** Min: 13-15°C. Max: 25-26°C.

**Humidity:** Morning max 95%, afternoon min 50%

#### **Outlook for Wednesday**

**Rainfall:** None expected.

**Sustained winds:** W-SW, ~ 10km/ in the morning. Turning NE by mid-day and increasing to up to 15 km/h by late arvo.

**Wind gusts:** Afternoon gusts up to 40 km/h possible.

**Temperature:** Min: 13-15°C. Max: 26-27°C.

**Humidity:** Morning max 85%, afternoon min 50%

<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 11/2/2019 Time 0700 - 1900	<b>FIRE BEHAVIOUR FORECAST</b>
<b>3. Download Avenza PDF Maps, Scan the Following Codes to Access Digital Maps</b>		

<b>General Weather Overview</b>
<b>Tonight:</b> NE gradually turning SW by 10pm, 10 km/h or less. Gusts up to 30 km/h at 6pm, gradually decreasing thereafter to 15 km/h or less from 11pm onward. Temp Decreasing to near 13°C early morning. RH 70% and increasing to near 95% after midnight.
<b>Tomorrow</b> Cloud increasing through the day and NE winds dying out. RH reaching 50% mid afternoon and temperatures 23-25. Wind 20km with gusts to 40km

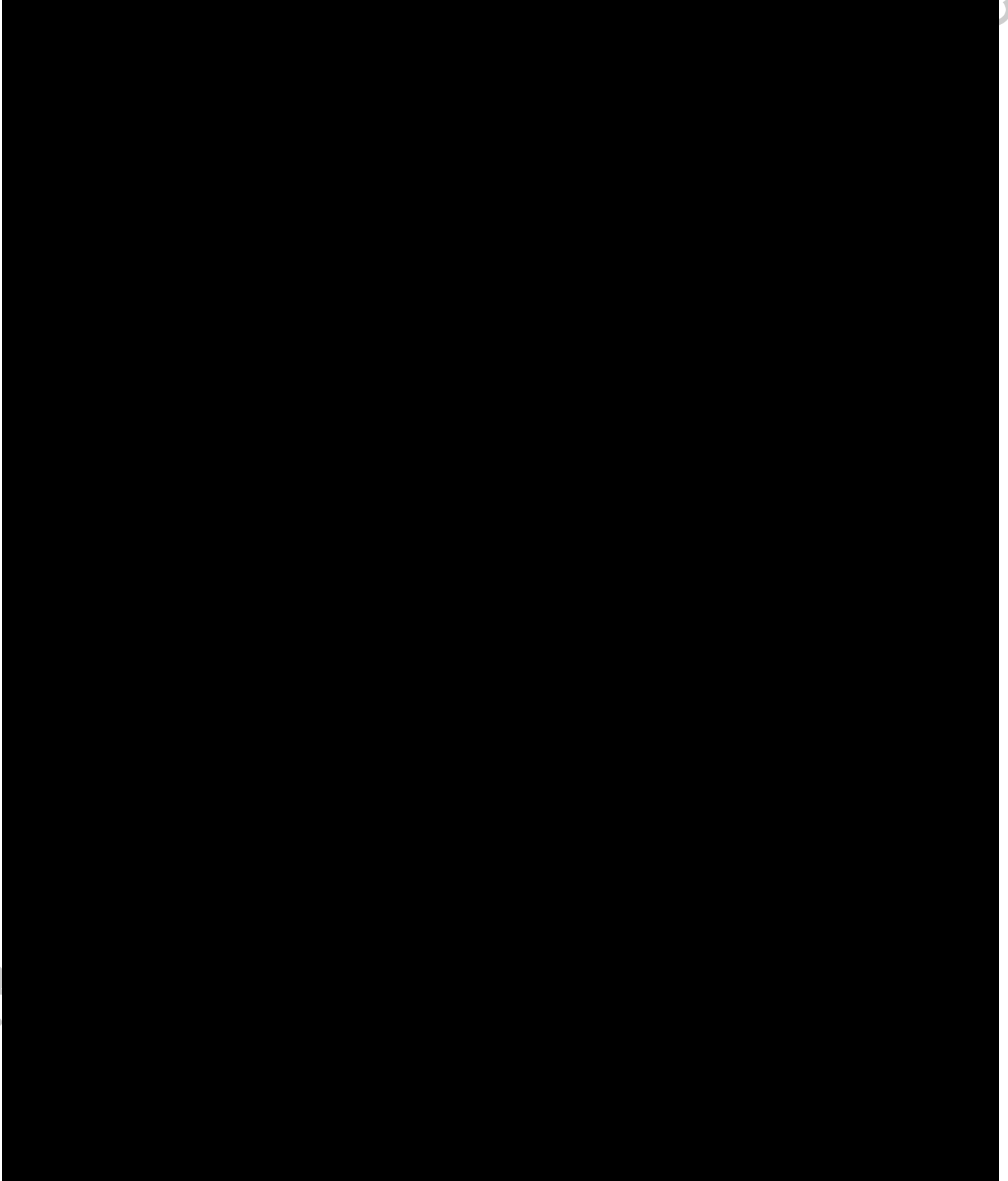
<b>Fire weather @ 1300hrs</b>											
Weather Station	Temp	RH	WD	WS	Prec	FFMC	DMC	DC	ISI	BUI	FWI
<b>Dovedale</b>											
Feb 9 Actual	23	64	NE	16	0	79	102	477	2.4	133	12.6
Feb 10 Forecast	22	68	NE	10	0	86	105	490	4.2	136	19.5

<b>General Fire Behaviour</b>
Similar burning conditions to Sunday but with significant peak activity in exposed areas and steeper slopes

<b>Specific Fire Behaviour</b>			
Fuel Type	Forecast	ROS/ Height (No Suppression)	Peak ROS / Flame height
Mature Pine	185m/hr	3.1m	3,000m/hr 11m
Grass (GC80%,H 0.1m,C100%)	760m/hr	1.6m	7,000m/hr 4.5m
<b>Specific Notes</b>			
Good opportunities for ground crew mop up through the morning. As the afternoon weather develops the ground crew mop up will become limited and the need for heavy equipment and air support will increase.			

<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 11/2/2019 Time 0700 - 1900	<b>MAPS</b> RF
<b>3. Download Avenza PDF Maps, Scan the Following Codes to Access Digital Maps</b>		

## QR CODES FOR MAP DOWNLOAD





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<b>1. Incident Name</b> Pigeon Valley Fire, Nelson	<b>2. Operational Period</b> 11/02/2019 – 0700 to 1900
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# Public Information Management Plan

## Overview of PIM response

The NIMT PIM team is working to support the Nelson Tasman Civil Defence PIM team. It is essential that the information coming in from the fire ground (with regards to FENZ operations) is collated by the NIMT Situation Unit and shared to the Civil Defence IMT - this is done through the PIM teams working collaboratively and assists in timely, accurate and relevant information to all stakeholders involved.

The overall PIM team is increasing personnel numbers.

## NIMT PIM team – for Sunday 10<sup>th</sup> February

**PIM FENZ Manager** – [REDACTED]  
**PIM Liaison** – [REDACTED]  
**Media Officer** – [REDACTED]  
**PIM Support** – [REDACTED]  
**Social Media Manager, Community Liaison, Evac/Alerts** – Civil Defence

The **PIM Team roster** is available from NIMT Logistics Manager.

## PIM meetings:

Ops Briefing 0700hrs  
Media Briefing #1 0830hrs  
Planning Meeting #1 0900hrs – to be confirmed  
Tactics Meeting 1100hrs  
Media Briefing #2 1600hrs – to be confirmed  
Planning Meeting #2 1700hrs

## Key Messages:

- **Attn Cordons:** Media should only be allowed access to cordoned areas and restricted sites if approved and accompanied by a member of the PIM Team. Please be diligent with allowing people through.
- Evacuations are still in place, for more information, go to [www.nelsontasmancivildefence.co.nz](http://www.nelsontasmancivildefence.co.nz)
- Evacuated residents should check in at the Civil Defence Welfare Centre located at the Saxton Field Stadium or call the Civil Defence Welfare helpline - 03 543 8400
- Media should contact the Media Officer for specific event information and media stand-up information.
- Fire safety messages are: Stay away from the area and follow authorities' instructions. Also help protect your property by creating a 'defensible zone' – Use compost, mulch and remove any section or yard waste materials.
- Donated items should be sealed, long-life foods and drink, drop off at Nelson Tasman District Council Office.

## FENZ Stakeholders and Audience Groups

Organisation	Detail	Name	Contact Info
FENZ Org (forward system to ELT, NCC, OCE and Board)	Requires regular updates – committed to 4x updates daily at 0830hrs, 1100hrs, 1500hrs and 1830hrs. Additionally a phone call every hour	RCC Christchurch	RCC R4 & R2, NCC, [REDACTED], [REDACTED], Nelson Tasman CD Planning & Intel, NIMT Situation Unit, Comms Team
Evacuated Residents	Community Meeting – next one on Monday 11 <sup>th</sup> Feb @ 5.30pm, Appleby School.	Various	Comms through social media, Civil Defence website, welfare team and media.
Interested Public	Local community (not evacuated) and wider	Various	Social media posts, Civil Defence website, FENZ website, media outlets
Cordons	Managed by Police, kept updated via PIM team		Police Liaison in IMT
IMT and Support Staff	Information to help their roles	*See structure charts	Briefings, meetings, conversations between the teams, Sit Reps
Media Outlets	Require full-time management and contact	*See media list	

Direct message distribution	Details of the specific sites or types
Websites	Nelson Tasman Civil Defence - <a href="http://www.nelsontasmancivildefence.co.nz/">http://www.nelsontasmancivildefence.co.nz/</a> Fire and Emergency NZ <a href="http://www.fireandemergency.nz">www.fireandemergency.nz</a>
Social media	<b>Main channel is:</b> Nelson Tasman Civil Defence facebook page Fire and Emergency NZ facebook page Tasman-Malborough Fire Area facebook page
Helpline	Welfare Helpline – 03 543 8400
Information points	Cordons (located as per map)
Community contacts/meetings	Community Meeting Monday 11 <sup>th</sup> February – details TBC.
Media message distribution	Specific stations or publications
Radio	*See media list

TV	
Newspapers	
<b>Media</b>	<b>Schedule</b>
Media briefing/conferences	Media Stand Up at 0830hrs. Media Stand Up at 1600hrs. 2 hourly Media Releases
Media site visits	
Interviews	Regular interviews with FENZ personnel
<b>Message monitoring</b>	
<p>Messaging is being monitored by Civil Defence PIM Team and dealt with / passed on accordingly. FENZ PIM team are supporting for Media management and FENZ / Operational information requiring to be gathered and shared.</p>	

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<b>1. Incident Name</b> Pigeon Valley Fire, Nelson	<b>2. Operational Period</b> 11/02/2019 – 0700 to 1900
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<b>Sector Supervisors Report</b> (to be completed following shift)	Fire location				Signed			
	S-Supervisor name				Sector Name/Location			
	Shift Start	Date				Shift Start	Date	
		Time					Time	

<b>Crews on your sector</b>						
Crew Name/Company	C-Leader Name	No. Crew	Equipment used that crew supplied			
			Radios	C-saw	H-Tools	Other

<b>Equipment used on the sector</b>						
Pumps (hrs for each pump)	Wajax 1		hrs	Acqualite 1		hrs
	Wajax 2		hrs	Waterous 1		hrs
	Wajax 3		hrs	No Dams Used		
	Wajax 4		hrs			
Hose Lengths	25mm 4lengths=1pk		41mm 3lengths=1pk		70mm	
Suppressants	Foam		Litres		Soap Cap	

<b>Fire Appliances Used on the sector</b>				
Registration	Type	Driver name	Hourly Usage on site	Other Comments

<b>Heavy Machinery Used on site</b>				
Registration	Type	Driver name	Hourly Usage on site	Other Comments

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Incident Name  Pigeon Valley	Operational Period	IAP COVER SHEET RF199
	Date 11&12/2/2019  Time 1900 – 0700	

Incident Name Pigeon Valley	Operational Period Date 11&12/2/2019 Time 1900 – 0700	IAP COVER SHEET RF199
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**INCIDENT ACTION PLAN**

The items checked below are included in the incident Action Plan

- SITUATION REPORT
- WEATHER & FIRE BEHAVIOUR FORECAST
- INCIDENT OBJECTIVES
- ORGANISATIONAL LIST
- SECTOR ASSIGNMENT
- DIVISIONAL ASSIGNMENT
- AIR OPERATIONS PLAN
- COMMUNICATION PLAN
- SAFETY PLAN
- MEDICAL PLAN
- FIRE MAP & DOWNLOAD QR CODES
- PUBLIC INFORMATION & MEDIA

Approved by Incident Controller: Name [REDACTED]	Signed [REDACTED]	Date/Time 1700 11/2/19 1742
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*Deputy Incident Controller*



Approved by Incident Controller:  Name [REDACTED]	Signed	Date/Time 1700 11/2/19
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<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 11/2/2019 Time 0700 - 1900	<b>SITUATION REPORT</b> RF201
<b>3. Location</b> Pigeon Rd, Eves Valley, Tasman	<b>4. Vegetation</b> Forest/Scrub/Grass/Slash/ Other:	

**Latest information as at 1500 11/2/2019:**

During Sunday evening, three drone crews were deployed initially tasked with assessing properties and assets with a view to increase the likelihood of their owners return. They completed a full perimeter survey of Pigeon Valley Fire and Atawhai Rd Fire for hot spots to provide direction to ground operations for Monday. They have also confirmed no change in perimeter or area overnight.

Work over Monday has focused on strengthening control lines and extinguishing identified hot spots. Dangerous tree assessments are underway with initial priority on trees around structures.

Air operations will assess the work program today, and they have confirmed to drop to 10 helicopters.

Through Sunday night the weather eased, and we have had a recovery of RH this morning. Weather trough today has seen temps in the low to mid 20s and RH around the 50% mark. Through the week, the weather will be warm and dry with temperatures in the mid 20's and RH in the low 50's with a period tomorrow possibly in the 40%. There is a low probability of drizzle tonight, though high RH in the 90%. Over the next 14 days there is very low probability of rain exceeding 5mm.

Current resources working on the vegetation fire (day shift) are:

- 10 helicopters, two fixed wings plane, 3 drone team
- 18 vegetation crews, and 11 structure crews (151 personnel)
- 15 heavy machines (excavators and dozers) + additional 2 added at 0800hrs
- 47 incident management staff.

To nights resources will be

- drone team
- 14 vegetation crews, and 11 structure crews (151 personnel)
- 9 heavy machines (excavators and dozers) + additional 2 added at 0800hrs
- 4 structure crews
- 2 tanker crews

National Incident Management Team is in transition for handover, with shadowing through to 1500, whereby the new team will take control with a formal handover notification.

Wakefield re-entry was reassessed at 4pm today. Cordons were removed and people were allowed in as of 5pm

## 6. Assessment

As at 1200hrs on 9 Feb, a large scrub/forest fire is currently burning, estimated to be over 2300ha with a perimeter of 25km extending primarily in the Pigeon Valley area and north western boundary.

Saturday night (09.02.19), 9.4km of the fire perimeter was surveyed by the USAR and Interpine Drone Teams. 1.9km is deemed to be contained (7.6% overall contained) and the other 7.5km was showing thermal activity within 30m of the fire perimeter.

Thursday afternoon (07.02.19), there was a breakout in an area where the fire retardant and aerial suppression wasn't effective in containing the fire. Fire spotting occurred in excess of 500m at times. Up until this morning, this breakout has burnt approximately 515ha of heavy fuels (pine forest). The fire behaviour has been mainly internal, burning throughout Friday, but extended late Sunday evening and throughout the night along an 800m section north of Haytons Rd as the fire progressed upslope. This area has continued to cause concerns of containment from late afternoon Saturday (09.02.19). Drone infrared operations will be used throughout the night to capture intelligence that will assist ground operations.

Values at risk are life, livestock and property.

Local crews and heavy machinery successfully protected nearby residential properties under very challenging fire conditions on Thursday. The fire is backed up on several structures close to the forest boundary on the south-east but is being protected by effective fire breaks which were established Thursday night. Machinery fire control lines now extend around 90% of sectors Zulu and Yankee.

Evacuation operations were conducted Friday across Wakefield, based on predicted rates of fire spread in the event another breakout occurs and a front is generated. This was jointly decided upon between Police, Civil Defence and FENZ that evacuation of the Wakefield residents, which incrementally commenced Friday afternoon. With the suppression effort, the arrival of the fire at the Evacuation trigger points was delayed, with the fire reaching this point at 0030, Sat 9 Feb at night, when favourable wind and weather conditions helped slow further progression.

A huge effort was invested in this area Saturday and continued Sunday, to allow this part of the fire to progressively burn downhill to the riverflats. To date, we have been successful in extinguishing the fire as it comes out of the pine plantation into the scrub and grassland.

A telecommunications site on the end of Cooks Rd (near Wakefield) is at risk with northerly wind. These towers have had fire retardant applied to assist in protecting them and firebreak work continues to help with this. Two contingency mobile sites have been installed near Wakefield so that the communications at Wakefield will be maintained in the event the current site becomes damaged.

The fire that started on the 8 Feb at Atawhai Road, called Walters Bluff Fire, is now under control and is being wrapped up. Overhead, helicopters and ground crew were assigned to this fire and resources deployed were 5x helicopters, 4x urban and one rural appliance. Mopping-up operations continue with two crew and a field observer on site. Extinguishment of this fire is nearing completion with a monitoring crew assigned overnight.

Rabbit Island confirmed at 3ha 650m perimeter and no longer staffed, but fire observers are monitoring. This will be flown for hotspots using infrared drones.

A controlled burning operation was carried out successfully 10/2/2019 on a section of the fire perimeter in the Xray Division to bring the burnt edge of the fire out to the fire break. This tactic is used to consume fuel which would be available to the fire if it started to run up slope due to a strong wind behind it.

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## 7. Action taken

Current resources for fire management currently working on the vegetation fire (days shift) are:

- 10 helicopters, two fixed wings plane, 1 drone team
- 18 vegetation crews, and 11 structure crews (151 personnel)
- 15 heavy machines (excavators and dozers) + additional 2 added at 0800hrs
- 47 incident management staff.

Helicopter resources continue targeting the breakout area on the southeast boundary bordering Wakefield and heavy machinery has established control lines on 95% of the boundary on sectors Zulu and Yankee. The fireline established was jumped at 0530hrs, and a secondary containment line is being constructed by fellerbunchers and heavy machinery. Ground resources in this sector are also focused on the 800m fireline of active fire intensity.

Felling machinery underway around the Eve's Valley mill, removing Euc trees and on going extinguishment of hot spots.

Machinery and fellerbunchers will continue felling larger trees, shifting logs and extending a contingency control line to enhance the fire break in anticipation of the easterly wind, which was forecasted for Sunday on the western fire boundary. Fall back lines on the western boundary have had significant strengthening with work overnight and continuing today.

Fire observers continued working throughout fire-grounds including providing helicopter observation of areas which have potential for spotting.

Black-out work, machine fire breaking and hot spot targeting has continued on other parts of the fire ground.

Thursday 7 Feb, we established a No-Fly Zone over the fire ground, this will be in place until Monday 11, 5pm. The No-Fly zone is to 3000m and 3km from the red zone.

Structure crews have been deployed to key areas around the fire and the Wakefield township to provide additional support if needed.

During Sunday evening, three drone crews were deployed initially tasked with assessing properties and assets with a view to increasing the likelihood of their owners return. They completed a full perimeter survey of Pigeon Valley Fire and Atawhai Rd Fire for hot spots to provide direction to ground operations for Monday. They have also confirmed no change in perimeter or area overnight.

Additional structure crews and appliances, plus vegetation crews and other resources to facilitate rotation of crews for fatigue management.

A fire observer has continued to monitor the Atawhai Road fire.

Dozer control lines have contained around 92% of the perimeter to a minimum width of 6m, with greater than 10m. We now have a control line extending around the fire perimeter made up of Dozer lines, roadway and river bed.

The plan for a controlled understorey burn on the Cuthill sector has been undertaken today. A media release was timed to go out at the time of ignition.

During the late afternoon Saturday, there was a significant increase in fire activity in the Zulu Div near Cooks Rd which resulted in a growth of the fire perimeters. This "slop over" was under control by dark Sunday. The area has been measured by drones overnight and amounts to 3ha.

**8. Factors**

Extreme fire conditions. Limited non reticulated water supply. Steep terrain. Highly flammable complex dense vegetation with shrub understorey and ladders fuels throughout. Winds will styeed in the NE quarter today in the low to mind20s by afternoon

FENZ, Civil Defence and Police engaged positively with local iwi and tangata whenua Sunday (10.02.19) with no concerns. Maori Liaison is now in place with the IMT.

Temperature and relative humidity is tracking as expected for today. Tonight, there is a chance of drizzle or at least RH in the 90% area. There is a forecast wind change to SW later tonight with winds shifting more west tomorrow.

**9. Predicted Incident Development**

Weather forecasts are being updated every two hours, so we always have current information.

Tonight, fire activity should ease with lower temps and RH in the 90% (possible drizzle). Winds are forecast to shift to the SW tonight and further to the west during tomorrow. Wind strengths will be in the range of 15 – 20kph with gusts in the 30s. The shift to the west will bring dryer condition for a time with temps in the higher 20s and RH in the 40s. Fire will likely increase in behaviour during this time with observations today showing active flame with RH in the 50s and Temps in the mid 20s.

Through the week, the weather will be warm and dry with temperatures in the mid 20's and RH in the low 50's later in the week. Over the next 14 days there is very low probability of rain exceeding 5mm.

**10. Prepared by:** [REDACTED]

**Date/Time:**

**Authorised by** [REDACTED] **Incident Controller)**

1500hrs 11th Feb 2019

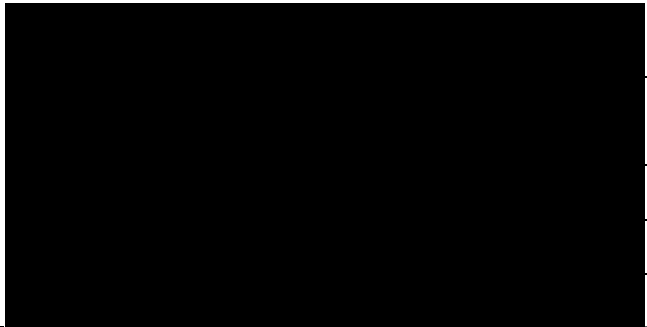



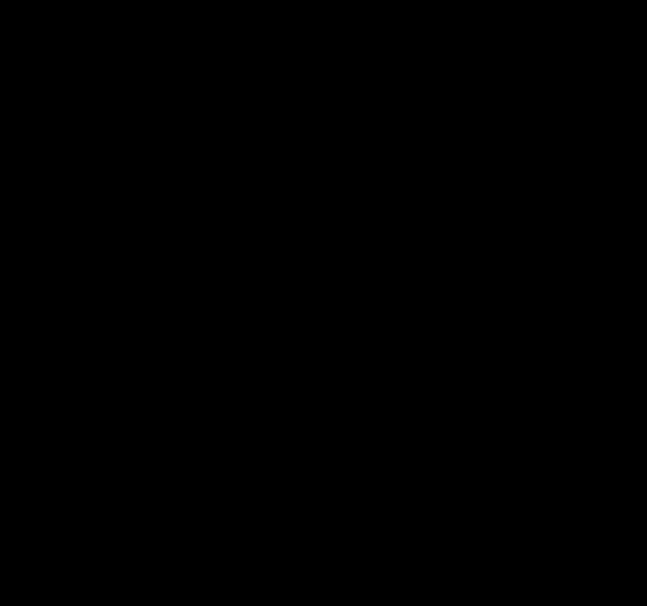
Released under the Official Information Act

<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 11&12/2/2019 Time 1900 – 0700	<b>WEATHER AND FIRE BEHAVIOUR FORECAST</b>
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General Weather Overview											
<p><b>Tonight:</b> NE , 10 – 15 km/h with gust easing and wind gradually turning SW around 11pm 10kph or less. There is a slight chance of drizzle between 2am and 6am or at least RH will be around 90%. Early morning temps near 15C</p> <p><b>Tomorrow</b> SW throughout the morning turning more westerly after 12pm. Wind in the morning 5-10kph increasing to 10-15kph during the afternoon. Wind could increase to 20 –25kph with gusts in the 30s later in the day. Temps range 14 – 26 C and RH 95% dropping to the 40s</p>											
Fire weather @ 1300hrs											
Weather Station	Temp	RH	WD	WS	Prec	FFMC	DMC	DC	ISI	BUI	FWI
<b>Dovedale</b>											
Feb 11 Actual	25	55	NNE	16	0	87	106	491	5.9	138	25
Feb 12 Forecast	23	60	WNW	11	0	88	110	505	5.4	143	24
General Fire Behavior											
Overnight fire behaviour will ease, increasing through the day Tuesday as the westerly brings warmer and dryer conditions.											
Specific Fire Behaviour											
Fuel Type				Forecast 1300 ROS/ Flame Height <i>(No Suppression)</i>				Peak ROS / Flame height			
Mature Pine				66 m/hr 2 m				693m/hr 6m			
Grass (GC90%,C100%)				510m/hr 1.5m				2662m/hr 4m			
Specific Activities											
Night conditions will be good for blackout and mop-up. During Tuesday morning it will be a good opportunity to make progress while fire activity is relatively low. Later in the day the warmer and dryer conditions will increase fire behaviour.											
SAFETY ADVISORY											
Wind conditions in afternoon Tuesday will cause tree windthrow danger due to damaged root plates.											
The SW wind increase later Tuesday will put pressure on the NE sectors.											

RISK MATRIX	FFMC	DMC	DC	ISI	BUI	FWI
	Ignition Potential	Mop Up Difficulty	Rate of Spread	Fuel Availability	Fire Intensity	
LOW	0+	0+	0+	0+	0+	0+
MODERATE	75+	21+	101+	5+	16+	4+
HIGH	85+	31+	176+	9+	31+	14+
VERY HIGH	88+	41+	251+	13+	46+	24+
EXTREME	92+	46+	326+	16+	61+	29+

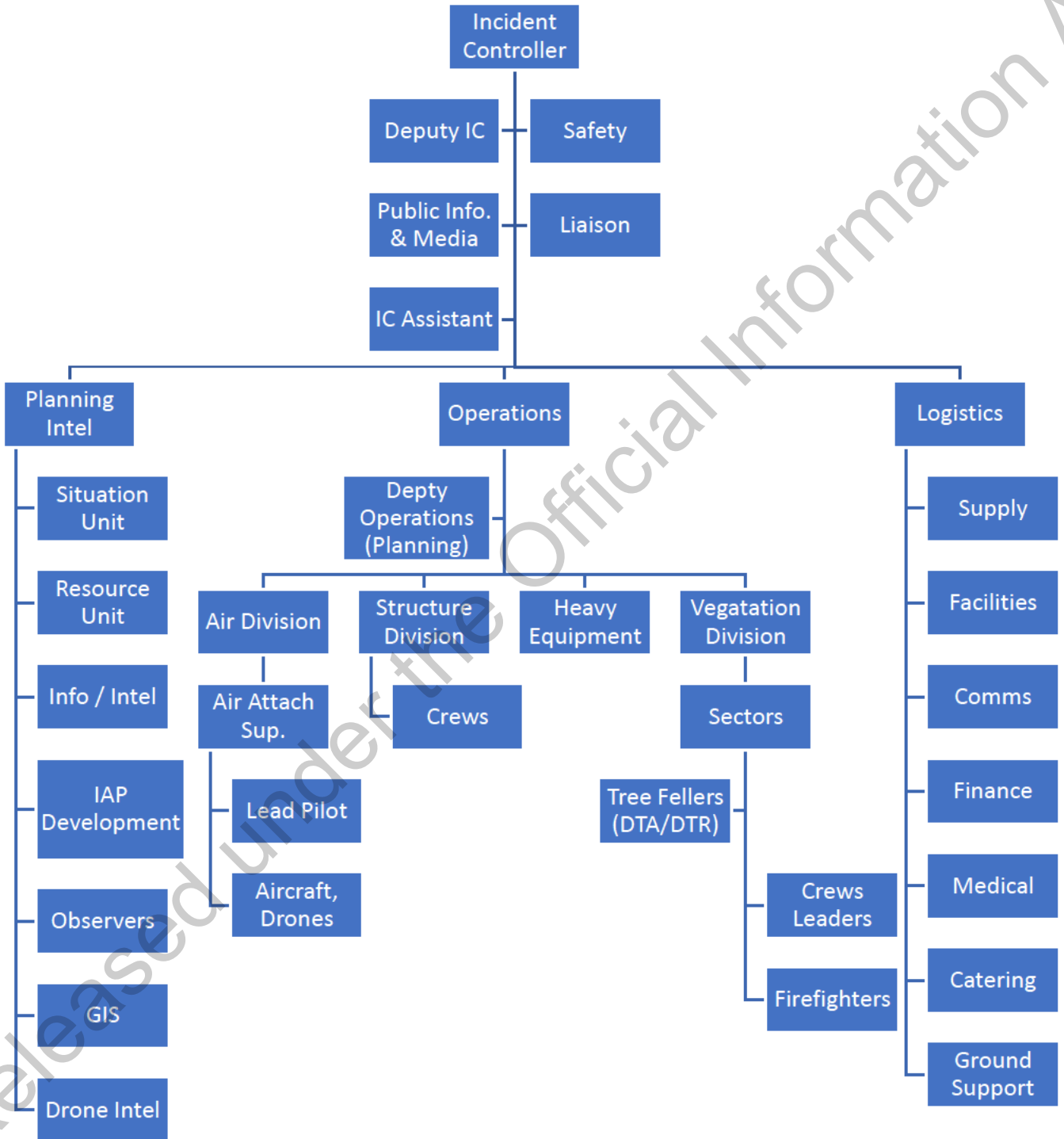
<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 11&12/2/2019 Time 1900 – 0700	<b>INCIDENT OBJECTIVES</b> RF202
<b>3. Overall Incident Objectives</b> <ol style="list-style-type: none"> <li>1. Ensure the safety of responders and public at all times during the incident</li> <li>2. Minimise the impact on structures, infrastructure, assets and values during the incident</li> <li>3. Minimise impact on environment, culture and historic values during the incident</li> <li>4. Ensure communication and information, liaison with stakeholders/ community/ public/ government bodies and affected parties is timely, meets standards and requirements at all times during the incident</li> <li>5. Report on costs on a daily basis by 1800</li> <li>6. Return community to homes/normal life as soon as practicable</li> <li>7. Investigate cause (including protect initial ignition site and evidence)</li> </ol>		
<b>4. Strategies to meet objectives</b> <ol style="list-style-type: none"> <li>1. Create a safety plan and safety briefing for all staff and contractors. Monitor fire behaviour and establish triggers and cordons for withdrawals and evacuation.</li> <li>2. Use media, trusted community channels and stakeholders to establish communications and engagements. Establish regular briefings and updates.</li> <li>3. Identify critical infrastructure, assets and values. Structures have structure protection crews and technical liaison where required. Water courses and dip sites identified with environmental protection.</li> <li>4. Cultural/Historical/environmental values identified on incident ground (Actual and projected)</li> <li>5. Financial reporting established and continued</li> <li>6. Create a recovery plan with community and stakeholders to assist post incident. <ul style="list-style-type: none"> <li>• Consider operation delivery to minimise impacts in support of the recovery plan.</li> </ul> </li> </ol>		
<b>5. Specific operational tasks for this shift to meet objectives</b> <ul style="list-style-type: none"> <li>• Crew blacking out to 30m in 10m increments</li> <li>• Patrol, and monitor all fire edges, focusing on prescribed burn in Zulu 1 and Eder and Cuthill roads</li> <li>• Protection of identified structures and assets including cell phone towers, dairy farms and structures in “Drones Rd”, Teapot Valley, Pigeon Valley and Mill.</li> <li>• Create and strengthen firebreaks – focusing on Heines and Foxes Rd. New breaks on Golf Rd linkages”</li> <li>• Urban appliances tasked for structure protection Teapot Valley.</li> <li>• RPA/UAV/Drone hotspot and perimeter surveys.</li> <li>• Tree Felling around Mill</li> <li>• Initial Attack crew on standby</li> </ul>		
<b>5. Prepared by:</b> ██████████	<b>Date/Time:</b> 11/2/19 1320hrs	

<b>1. Incident Name</b>	<b>2. Operational Period</b> Date 11&12/2/2019 Time 1900 – 0700	<b>ORGANISATION ASSIGNMENT</b> RF203	
<b>3. Incident Control</b>  Incident Controller   Deputy IC Safety Officer			Radio Ch    
<b>4. Agency Representative - Emergency contacts</b>  Lead Agency [REDACTED] FENZ Agency Police [REDACTED] Agency [REDACTED] Agency CDEM [REDACTED] Agency CDEM Duty Phone Agency FENZ Urban Liason [REDACTED] [REDACTED]		Phone 	Radio Ch      
<b>5. Planning/Intell Section</b>  Planning/Intell Manager   Situations Unit   Resources Unit	<b>- Emergency contacts</b> 		Phone Radio Ch    
<b>6. Logistics Section</b>  Logistics Manager [REDACTED]	<b>- Emergency contacts</b> 		Phone Radio Ch  
<b>7. Operations Section</b>  Operations Manager  Deputy Operations Manager Division Alpha Commander Division Xray Commander Division Yankee Commander Division Zulu Commander Division Atawhai Commander Air Division – Drone  Air Division Commander	Phone 		Radio Ch          

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<b>8. Prepared by:</b> [REDACTED]	<b>Date/Time:</b> 11/2/19 1700hrs

**10. INCIDENT CONTROL STRUCTURE**



<b>9. Prepared by:</b> [REDACTED]	<b>Date/Time:</b> 1900 11/2/19
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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 11&12/2/2019 Time 1900 – 0700		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> <b>Alpha</b>		<b>4. Description</b> Point of ignition to Dove Saddle on Eder Rd			
<b>5. Division Commander</b>	<i>Affiliation</i>	<i>Phone</i>	<i>Radio Ch</i>		
██████████		██████████			
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>	<i>Supervisor</i>	<i>Crews</i>	<i>Radio Ch</i>		
3x Excavator					
2x Dozer					
NFM 10px Crew					
Thermal Imaging crew 2px					
2 x Bulk tanker					
2 x rural appliance					
<b>7. Division Assignment/Special Instructions</b>					
<ul style="list-style-type: none"> <li>• A1 Patrol/protect structure. Keep mobile resources for immediate response, hotspotting as per map.</li> <li>• A2 Blackening out control line from previous burn in area towards Xray -1 Machinery to continue widening and digging out</li> </ul> <p>Alpha 1 - Div break to Ford on Sharps Rd Alpha 2 – From ford on Sharps rd to Cuthill Johnsons Rd intersection (updated Div break)</p>					
<b>8. Division Communications</b>			<i>Phone</i>	<i>Radio Ch</i>	
Operations Manager	██████████		██████████		
<b>10. Prepared By:</b>			<b>Date/Time</b> 11/2/19 1900hrs		
██████████					

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 11&12/2/2019 Time 1900 – 0700		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> <b>Xray</b>		<b>4. Description</b> Division from Cut hill Johnsons Rd to CHH saw mill			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>	<b>Radio Ch</b>		
<b>6. Resources Assigned this Period</b>					
<b>Sector</b>		<b>Supervisor</b>	<b>Crews</b>	<b>Radio Ch</b>	
Puklowski 8px					
Packer 4px					
2x 4x4 Tankers NFL01 & Appleby					
2x Urban Appliance 291, 213					
3x Rural Appliance					
RD JD850 Dozer					
Feller Buncher					
Thermal Imaging crew 2px					
<b>7. Division Assignment/Special Instructions</b>					
Continue widening control line – felling machine Patrol and monitor, blackening out cut hill Rd and fire perimeter					
Xray 1 – Cuthill/Johnsons Red intersection (new Div break) to 5423000/1603000 Xray 2 - 5423000/1603000 to intersection of Redwood Valley Rd and Red Stage lane Xray 3 - Redwood Valley Rd and Red Stage lane to Yankee div break					
<b>8. Division Communications</b>			<b>Phone</b>	<b>Radio Ch</b>	
Operations Manager [REDACTED]			[REDACTED]		
<b>11. Prepared By:</b>			<b>Date/Time</b> 11/2/19 1900hrs		

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 11&12/2/2019 Time 1900 – 0700		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> <b>Yankee</b>		<b>4. Description</b> Bennets Road to CHH saw mill at Eves Valley			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>	<b>Radio Ch</b>		
██████████		██████████			
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
<i>Radio Ch</i>					
5086 crew 4px					
Puklowski 4px					
Brightwater 5071 – Rural Appliance					
4x4 Tankers NFL02					
D8 Dozer					
Feller Buncher					
Thermal image crew 2px					
<b>7. Division Assignment/Special Instructions</b>					
Patrolling and mopping up.					
Yankee 1 – South edge of mill to div break at Zulu					
Yankee 2 – Xray div break to south edge of the mill					
<b>8. Division Communications</b>			<b>Phone</b>		<b>Radio Ch</b>
Operations Manager ██████████			██████████		
<b>12. Prepared By:</b>			<b>Date/Time</b> 11/2/19 1900hrs		

Released under the Official Information Act

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 11&12/2/2019 Time 1900 – 0700		<b>DIVISION ASSIGNMENT</b> <small>RF204a</small>	
<b>3. Division</b> <b>Zulu</b>		<b>4. Description</b> Point of ignition to CHH saw mill			
<b>5. Division Commander</b>	<i>Affiliation</i>	<i>Phone</i>	<i>Radio Ch</i>		
██████████		██████████			
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>	<i>Crews</i>	<i>Radio Ch</i>	
██████ Bears Smoke Chaser					
Maraharu VRRF smoke Chaser					
██████ Bears Tanker					
Urban appliance 331					
Urban appliance 441					
Rural Appliance 5075					
Thermal image crew 2px					
<b>7. Division Assignment/Special Instructions</b>					
Patrolling/mopping up/blackening out/hotspots					
Structure protection as required					
Zulu 1 – Alpha div break to Barton Lane Zulu 2 – Barton lane to Yankee div break.					
<b>8. Division Communications</b>			<i>Phone</i>	<i>Radio Ch</i>	
Operations Manager ██████████			██████████		
<b>13. Prepared By:</b> ██████████			<b>Date/Time</b> 11/2/19 1900hrs		

Released under the Official Information Act

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 11&12/2/2019 Time 1900 – 0700		<b>DIVISION ASSIGNMENT</b> <small>RF204a</small>	
<b>3. Division</b> <b>Atawhai</b>		<b>4. Description</b>			
<b>5. Division Commander</b>	<i>Affiliation</i>	<i>Phone</i>		<i>Radio Ch</i>	
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	<i>Radio Ch</i>
Night					
Hira Smoke Chaser + 2px					
<b>7. Division Assignment/Special Instructions</b> Monitor and assess hotspots  Drone flight for thermal imaging					
<b>8. Division Communications</b>				<i>Phone</i>	<i>Radio Ch</i>
Operations Manager [REDACTED]				[REDACTED]	
<b>14. Prepared By:</b> [REDACTED]				<b>Date/Time</b> 11/2/19 1900hrs	

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 11&12/2/2019 Time 1900 – 0700		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> <b>Structure protection</b>		<b>4. Description</b> Functional division across Pigeon Valley Incident			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>	<b>Radio Ch</b>		
██████████		██████████			
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
<b>7. Division Assignment/Special Instructions</b>					
<ul style="list-style-type: none"> <li>• Coordinate resources and response to meet requirements of the IAP work assignments as requested from logistics</li> <li>• Any activities within geographical divisions must be under the direction and control of the geographical division commander</li> <li>• Urban division also responsible for adequate rotation and replenishment of Urban crews</li> </ul>					
<b>8. Division Communications</b>				<b>Phone</b>	
Operations Manager		██████████		██████████	
Air Division Commander		██████████		██████████	
				Fire 1/Cellphone	
				Fire 4/Cellphone	
<b>15. Prepared By:</b> ██████████				<b>Date/Time</b> 11/2/19 1900hrs	

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 11&12/2/2019 Time 1900 – 0700		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> <b>Initial Attack</b>		<b>4. Description</b> Functional division across Pigeon Valley Incident			
<b>5. Division Commander</b>	<i>Affiliation</i>	<i>Phone</i>	<i>Radio Ch</i>		
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>	<i>Supervisor</i>		<i>Crews</i>	<i>Radio Ch</i>	
<b>7. Division Assignment/Special Instructions</b>					
<ul style="list-style-type: none"> <li>Be available at FCP for immediate response to any new breakout or urgent support required</li> </ul>					
<b>8. Division Communications</b>			<i>Phone</i>	<i>Radio Ch</i>	
Operations Manager	██████████		██████████	Fire 1/Cellphone	
Air Division Commander	██████████		██████████	Fire 4/Cellphone	
<b>16. Prepared By:</b> ██████████			<b>Date/Time</b> 11/2/19 1900hrs		

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<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 11&12/2/2019 Time 1900 – 0700	<b>AIR OPERATIONS PLAN</b> RF208
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3. Personnel and Communications				
Position	Name	Affiliation	Phone	Radio Chan
Air Div Commander	[REDACTED]			
Air Division – Drone				

4. Air Resource Assignments						
Pilot Name/ Company	Aircraft Type	Reg or Call sign	Assign- ment	Tactical Freq/Chan	Name	Telephone Numbers
Interpine	RPAS / UAV	PINES1		Fire 4	[REDACTED]	
Interpine	RPAS / UAV	PINES2		Fire 4		
Usar	RPAS / UAV	PINES2		Fire 4		

5. Location of Filling Points/Service Areas	
Name	Grid Reference
Heli base	-41.31777, 137.10987
Fixed wing	41 22 39.9 S 173 05 04.6 E

<b>6. Safety Notes / Hazards / Radio Coverage Limitations</b>
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<b>7. Air Operations Special Equip or Service</b>
Drone operations
<ol style="list-style-type: none"> <li>1. Full perimeter survey of containment to 30m</li> <li>2. Atawhai – Full hotspot survey and aerial map before sunset</li> <li>3. Observation platform for Zulu overnight</li> </ol>

<b>8. Prepared By:</b> [REDACTED]	<b>Date/Time:</b> 11/2/19 1900hrs
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<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b>	<b>COMMUNICATIONS PLAN</b> RF205
	Date 11&12/2/2019 Time 1900 – 0700	

<b>3. Radio Channels</b>				
<i>Assigned To</i>	<i>Function</i>	<i>Channel</i>	<i>Frequency</i>	<i>System</i>
Command		Waimea 1	152.55000 RX 154.33125 TX	
Division Alpha	Operational	Fire 1	143.82500	
Division Zulu	Operational	Fire 2	143.78750	
Division Yankie	Operational	Fire 3	140.92500	
Division Xray	Operational	Fire 1	143.82500	
Division Bravo	Operational	Fire 2	143.78750	
Air Ops -Heli	Operational	Fire 4	140.61250	
Air Ops – Fixed Wing	Operational	Fire 10	140.98750	
Emergency		Waimea 1	152.55000 RX 154.33125 TX	
Resources		Waimea 1	152.55000 RX 154.33125 TX	
FireCom		FireCom		
2 Hourly - Sitrep		OPSR2	Use mobile if difficult coms to FCP	

<b>4. Telephone</b>				
<i>Assigned To</i>	<i>Landline</i>	<i>Cell phone</i>	<i>Fax</i>	<i>Comments</i>
Emergency		111		
Regional Command Centre (RCC)				

<b>6. Other (e.g. email, Satphone, etc)</b>		
Resources	<a href="mailto:resources@FENZNelsonIMT.com">resources@FENZNelsonIMT.com</a>	
Safety	<a href="mailto:safety@FENZNelsonIMT.com">safety@FENZNelsonIMT.com</a>	
Logistics	<a href="mailto:logistics@FENZNelsonIMT.com">logistics@FENZNelsonIMT.com</a>	
PIM	<a href="mailto:pim@FENZNelsonIMT.com">pim@FENZNelsonIMT.com</a>	
Planning	<a href="mailto:planning@FENZNelsonIMT.com">planning@FENZNelsonIMT.com</a>	
Forward Control Point ( FCP)	<a href="mailto:icu.nelson@fireemergency.nz">icu.nelson@fireemergency.nz</a>	██████████
Situation / GIS / Intel	<a href="mailto:situation@FENZNelsonIMT.com">situation@FENZNelsonIMT.com</a>	
Operations	<a href="mailto:operations@FENZNelsonIMT.com">operations@FENZNelsonIMT.com</a>	
Photos and imagery	Join Facebook site; Pigeon Valley Fire - INTERNAL COMMS	<a href="https://www.facebook.com/groups/1924082991035550/">https://www.facebook.com/groups/1924082991035550/</a>

<b>6. Prepared by:</b> ██████████	<b>Date/Time</b> 11/2/19 1900hrs
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<b>1. Incident Name</b>	<b>2. Operational Period</b> Date 11&12/2/2019	<b>SAFETY PLAN</b>
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Pigeon Valley	Time 1900 – 0700	RF209
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### 3. General Safety Points

Everyone is to be signed in and out of the fire ground through the Incident Control Point for both safety check and payment records (Complete DTR's).

Maintain regular situation reports especially kestrel observations (containing all relevant information) via line supervisors.

LACES	Fire Orders	Watchouts
<p><b>L</b> - Lookout(s)</p> <p><b>A</b> – Awareness</p> <p>– Anchor Point(s)</p> <p><b>C</b> – Communication(s)</p> <p><b>E</b> – Escape Route(s)</p> <p><b>S</b> – Safety Zone(s)</p>	<ol style="list-style-type: none"> <li>1. conditions and forecasts</li> <li>2. Know what your fire is doing at all times.</li> <li>3. Base all actions on current and expected fire behaviour of the fire.</li> <li>4. Identify escape routes and safety zones and make them known.</li> <li>5. <b>Post</b> lookouts when there is possible danger.</li> <li>6. <b>Stay</b> alert. Keep calm, Think clearly, act decisively.</li> <li>7. Maintain prompt communication with your crew/s, your supervisor and adjoining crews.</li> <li>8. Give clear instructions and ensure they are understood.</li> <li>9. Maintain control of your crew/s at all times.</li> <li>10. Fight fire aggressively having provided for safety first.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fire size is unknown (no size up).</li> <li>2. Unfamiliar territory</li> <li>3. Safety zones and escape routes not identified.</li> <li>4. Unfamiliar with weather and local factors influencing fire behaviour.</li> <li>5. No communications link with crew members or supervisor.</li> <li>6. Instructions and assignments not clear.</li> <li>7. Weather is getting hotter, drier and relative humidity dropping</li> <li>8. Wind increases and/or changes direction.</li> <li>9. Getting frequent spot fires across the line</li> <li>10. Working uphill or down wind of a fire</li> <li>11. Working on a steep slope</li> <li>12. Working in rugged terrain</li> <li>13. Can't see main fire</li> <li>14. In unburnt vegetation</li> <li>15. Walking through hot ashes</li> <li>16. Working alone</li> <li>17. Getting tired</li> <li>18. Working near power lines</li> <li>19. Working near machinery</li> <li>20. Working with aircraft</li> <li>21. Working around trees or spars</li> </ol>

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#### 4. Specific Safety Points

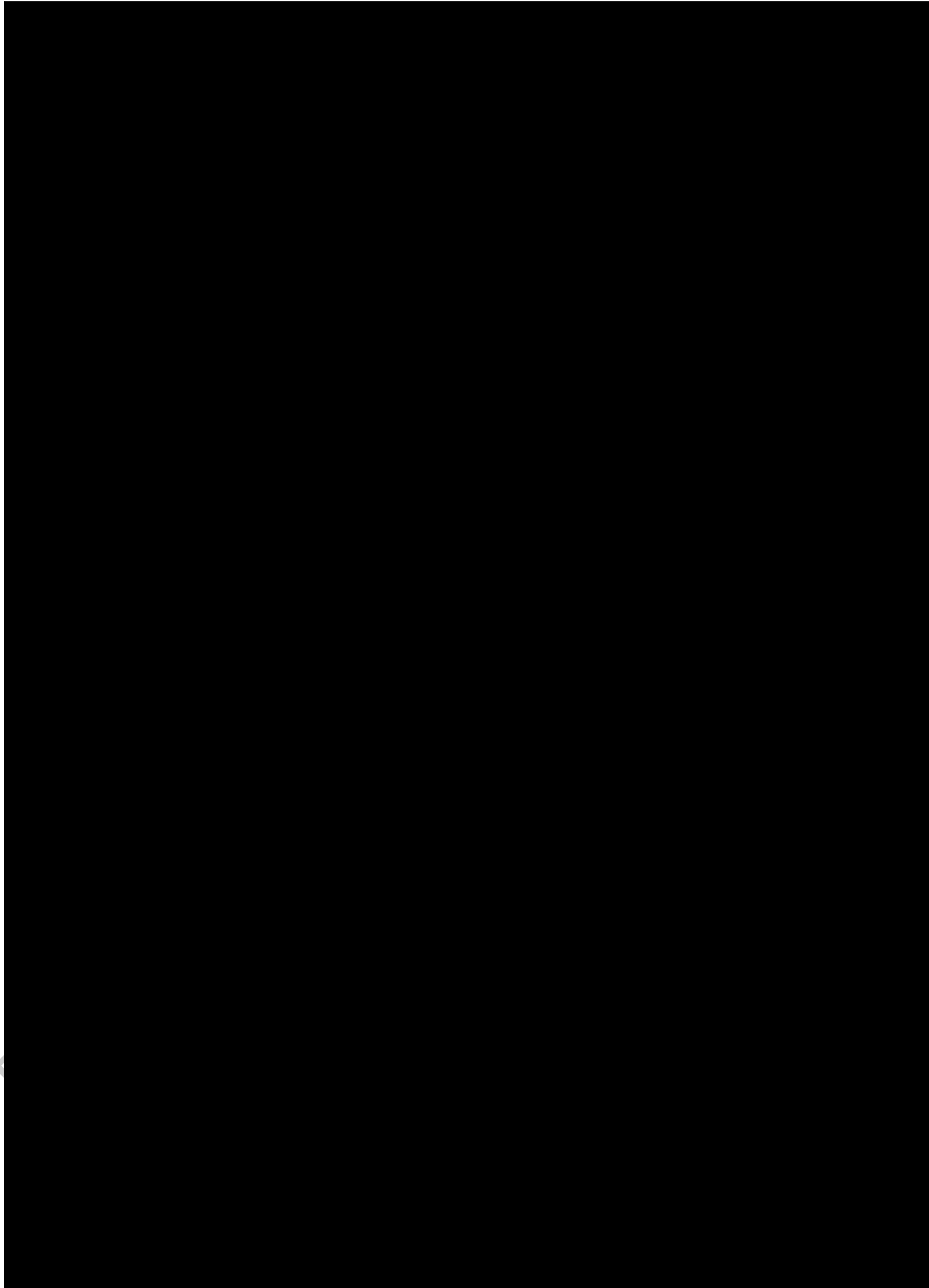
- All access points into fire are controlled. Only those authorized to enter and they must receive a briefing and be logged including time and point of access
- Public access managed by cordons
- Weather fire behaviour monitored for changes and communicated to crews. Use kestrels to gather weather data. Risk identified to crews.
- All crews to have adequate food, water, PPE to manage fatigue and hydration.
- Work rest periods enforced. Seek shade during rest period.
- Ensure nine-hour rest periods before returning to fire ground.
- Crews to have identified emergency escape routes and emergency plan in the event of harm. Meeting at pre-identified evacuation point once evacuated.
- All workers to ensure they are competent for the tasks and risks given.
- Air and ground crews to be isolated from risk areas during operations.
- Potential methane flares (Division Yankee) from Eves Valley Landfill. Avoid if possible.
- Avoid skid sites where stability of surface cannot be assured.
- Particular care in smoke, work in smoke and traveling in smoke.
- Ensure operational separation from Air-ops at forward command post
- Follow carpark signage at Forward command post
- Report all incidents and near misses to safety officer.
- Be sun smart, use hats and cover completely.
- Drive carefully in the vicinity of the Brightwater community
- Ensure under garments are flame resistant
- Forestry tracks & road speed 20 km/hr. Use beacons/ lights etc. Not response speed!
- Seat belts must be worn at all times
- Big trees with root plates compromised
- Ensure safe distance from felling machines (2 tree lengths ~ 80m minimum)
- Breakfast @ 0600-0800, Lunch @ 1100 – 1300, Dinner 1800 – 2000
- Fatigue campaign fire
- Dangerous tree assessors – Ensure all crew members are competent and equipped for task (including PPE).

5. Prepared By: [REDACTED]

Date/Time 11/2/19 1900hrs

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 11&12/2/2019 Time 1900 – 0700		<b>MEDICAL PLAN</b> RF206				
<b>3. First Aid Station</b> <i>Name</i>		<i>Location</i>		<i>Phone/Radio Channel</i>		<i>Paramedics available at Station</i>		
Each Crew must have available one First aid Level 1 Certified		Each crew						
Nelson 91 Ambulance		Forward command post		Waimea 1		1 Paramedic and 1 EMT		
<b>4. Transportation</b> <i>Ambulance Service</i>		<i>Address</i>		<i>Phone/Radio Channel</i>		<i>Paramedics available with Ambulance</i>		
Ambulance St Johns		Closest unit		111		Yes		
<b>5. Hospitals</b> <i>Hospital Name</i>		<i>Address</i>		<i>Phone</i>	<i>Road</i>	<i>Travel Time</i> <i>Air</i>	<i>Burn Unit</i>	<i>Heli Pad</i>
Nelson Public Emergency		Waimea Rd.		111	27m	4min	y	y
Hutt Hospital (Burn Unit)				111	n/a	40min	Y	y
<b>6. Special Emergency Procedures</b>								
St John will transport patients to whichever health facility is appropriate								
<b>7. Prepared By:</b> [REDACTED] Shift - Manager Nelson					<b>Date/Time</b> 11/2/19 1900hrs			
<b>8. Reviewed by Safety Advisor:</b> [REDACTED]					<b>Date/Time</b> 11/19 1900hrs			

## QR CODES FOR MAP DOWNLOAD



**1. Incident Name**

Pigeon Valley Fire, Nelson

Date 11&amp;12/2/2019

Time 1900 – 0700

# Public Information Management Plan

## Overview of PIM response

The NIMT PIM team is working to support the Nelson Tasman Civil Defence PIM team. It is essential that the information coming in from the fire ground (with regards to FENZ operations) is collated by the NIMT Situation Unit and shared to the Civil Defence IMT - this is done through the PIM teams working collaboratively and assists in timely, accurate and relevant information to all stakeholders involved.

The overall PIM team is increasing personnel numbers.

## NIMT PIM team – for Monday 11<sup>th</sup> February

PIM FENZ Manager – [REDACTED]  
PIM Liaison – [REDACTED]  
Media Officer – [REDACTED]  
PIM Support – [REDACTED]  
Social Media Manager, Community Liaison, Evac/Alerts – Civil Defence

The PIM Team roster is available from NIMT Logistics Manager.

## PIM meetings:

Ops Briefing	0700hrs
Media Briefing #1	0830hrs
Planning Meeting #1	0900hrs
Tactics Meeting	1100hrs
Media Briefing #2	1600hrs
Planning Meeting #2	1700hrs

## Key Messages:

- **Attn Cordons:** Media should only be allowed access to cordoned areas and restricted sites **if approved** and accompanied by a member of the PIM Team. Please be diligent with allowing people through.
- Evacuations are still in place, for more information, go to [www.nelsontasmancivildefence.co.nz](http://www.nelsontasmancivildefence.co.nz)
- Evacuated residents should check in at the Civil Defence Welfare Centre located at the Saxton Field Stadium or call the Civil Defence Welfare helpline - 03 543 8400
- Media should contact the Media Officer for specific event information and media stand-up information.
- Fire safety messages are: Stay away from the area and follow authorities' instructions. Also help protect your property by creating a 'defensible zone' – Use compost, mulch and remove any section or yard waste materials. Total fire ban and machinery ban still in place.
- Donated items should be sealed, long-life foods and drink, drop off at Nelson Tasman District Council Office.

**FENZ Stakeholders and Audience Groups**

Organisation	Detail	Name	Contact Info
FENZ Org (forward system to ELT, NCC, OCE and Board)	Requires regular updates – committed to 4x updates daily at 0830hrs, 1100hrs, 1500hrs and 1830hrs. Additionally a phone call every hour	RCC Christchurch	RCC R4 & R2, NCC, ██████████, ██████████, ██████████ Nelson Tasman CD Planning & Intel, NIMT Situation Unit, Comms Team
Evacuated Residents	Community Meeting – next one on Monday 11 <sup>th</sup> Feb @ 5.30pm, Appleby School.	Various	Comms through social media, Civil Defence website, welfare team and media.
Interested Public	Local community (not evacuated) and wider	Various	Social media posts, Civil Defence website, FENZ website, media outlets
Cordons	Managed by Police, kept updated via PIM team		Police Liaison in IMT
IMT and Support Staff	Information to help their roles	*See structure charts	Briefings, meetings, conversations between the teams, Sit Reps
Media Outlets	Require full-time management and contact	*See media list	

Direct message distribution	Details of the specific sites or types
Websites	Nelson Tasman Civil Defence - <a href="http://www.nelontasmancivildefence.co.nz/">http://www.nelontasmancivildefence.co.nz/</a> Fire and Emergency NZ <a href="http://www.fireandemergency.nz">www.fireandemergency.nz</a>
Social media	<b>Main channel is:</b> Nelson Tasman Civil Defence facebook page Fire and Emergency NZ facebook page Tasman-Malborough Fire Area facebook page
Helpline	Welfare Helpline – 03 543 8400
Information points	Cordons (located as per map)
Community contacts/meetings	Community Meeting Monday 11 <sup>th</sup> February – details TBC.
Media message distribution	Specific stations or publications
Radio	*See media list
TV	
Newspapers	
Media	Schedule

Media briefing/conferences	Media Stand Up at 0830hrs. Media Stand Up at 1600hrs. 2 hourly Media Releases
Media site visits	
Interviews	Regular interviews with FENZ personnel
<b>Message monitoring</b>	
<p>Messaging is being monitored by Civil Defence PIM Team and dealt with / passed on accordingly. FENZ PIM team are supporting for Media management and FENZ / Operational information requiring to be gathered and shared.</p>	

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<b>Sector Supervisors Report</b> (to be completed following shift)	Fire location			Signed		
	S-Supervisor name			Sector Name/Location		
	Shift Start	Date		Shift Start	Date	
		Time			Time	

**Crews on your sector**

Crew Name/Company	C-Leader Name	No. Crew	Equipment used that crew supplied			
			Radios	C-saw	H-Tools	Other

**Equipment used on the sector**

Pumps  (hrs for each pump)	Wajax 1		hrs	Acqualite 1		hrs
	Wajax 2		hrs	Waterous 1		hrs
	Wajax 3		hrs	No Dams Used		
	Wajax 4		hrs			
Hose Lengths	25mm 4lengths=1pk		41mm 3lengths=1pk		70mm	
Suppressants	Foam		Litres		Soap Cap	

**Fire Appliances Used on the sector**

Registration	Type	Driver name	Hourly Usage on site	Other Comments

**Heavy Machinery Used on site**

Registration	Type	Driver name	Hourly Usage on site	Other Comments

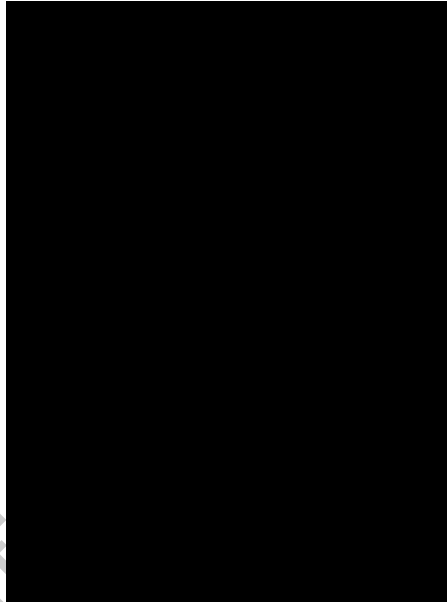
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Incident Name  Pigeon Valley	Operational Period	<b>IAP COVER SHEET</b>  RF199
	Date 12/2/2019 Time 0700 - 1900	

## INCIDENT ACTION PLAN

The items checked below are included in the incident Action Plan

- SITUATION REPORT
- WEATHER & FIRE BEHAVIOUR FORECAST
- INCIDENT OBJECTIVES
- ORGANISATIONAL LIST
- SECTOR ASSIGNMENT
- DIVISIONAL ASSIGNMENT
- AIR OPERATIONS PLAN
- COMMUNICATION PLAN
- SAFETY PLAN
- MEDICAL PLAN
- FIRE MAP & DOWNLOAD QR CODES
- PUBLIC INFORMATION & MEDIA



Approved by Incident Controller:		Date/Time
Name		2000 11/2/19



Prescribed Burn Sector X1





1. Incident Name	2. Operational Period	SITUATION	REPORT
Pigeon Valley	Date 12/2/2019 Time 0700 - 1900		RF201
3. Location Pigeon Rd, Eves Valley, Tasman	4. Vegetation Forest/Scrub/Grass/Slash/ Other:	5. World Grid Scale 84. 41°22'32.51"S 173° 1'31.81"E	
<p><b>Latest information as at 1700 11/2/2019:</b></p> <p>Drone crews were deployed overnight Monday 11th.</p> <p>On night of Sunday 10<sup>th</sup> drone crew found a significant quantity of hotspots in Yankee sector. These hotspots are in the gully to the west of the Carter Holt Harvey Mill off Eves Valley Road. The drone crews also identified a large number of hotspots in Xray sector, particularly around X2, near the fire perimeter and in Alpha sector.</p> <p>Yesterdays (11/2/2018) shift focused on strengthening control lines and with crews extinguishing hotspots identified on Sunday evening with the three drone crews. A flare up opposite Shirtcliff in Alpha Sector has helicopters working on it. Dangerous tree assessments are underway with initial priority on trees around structures. Heavy machinery is beginning to be demoblised in Zulu sector. Crew not involved in fire suppression and response augmentation roles have been actively seeking involvement in community engagement and reassurance roles. This interaction with the communities has been well received. Ten helicopters with two aerial platforms have been working on the fire ground today.</p> <p>Temperatures over the fire ground this afternoon have been in the low to mid 20's, with a relative humidity hovering around 50% and now starting to increase. Winds have been from the NNE with the wind in the low teens, gusting in the high teens.</p> <p>A new National Incident Management Team has formally taken over the fire at 1500hrs.</p> <p>Wakefield re-entry was permitted from 1600 11/2/2018</p>			
<p><b>6. Assessment</b></p> <p>Evacuation operations were conducted Friday across Wakefield, based on predicted rates of fire spread in the event another breakout occurs and a front is generated. This was jointly decided upon between Police, Civil Defence and FENZ that evacuation of the Wakefield residents, which incrementally commenced Friday afternoon. With the suppression effort, the arrival of the fire at the Evacuation trigger points was delayed, with the fire reaching this point at 0030, Sat 9 Feb at night, when favourable wind and weather conditions helped slow further progression.</p> <p>A huge effort was invested in this area Saturday and continued Sunday, to allow this part of the fire to progressively burn downhill to the riverflats. To date, we have been successful in extinguishing the fire as it comes out of the pine plantation into the scrub and grassland.</p>			

A huge effort was invested in this area Saturday and continued Sunday, to allow this part of the fire to progressively burn downhill to the riverflats. To date, we have been successful in extinguishing the fire as it comes out of the pine plantation into the scrub and grassland.

A telecommunications site on the end of Cooks Rd (near Wakefield) is at risk with northerly wind. These towers have had fire retardant applied to assist in protecting them and firebreak work continues to help with this. Two contingency mobile sites have been installed near Wakefield so that the communications at Wakefield will be maintained in the event the current site becomes damaged.

The fire that started on the 8 Feb at Atawhai Road, called Walters Bluff Fire, is now under control and is being wrapped up. Overhead, helicopters and ground crew were assigned to this fire and resources deployed were 5x helicopters, 4x urban and one rural appliance. Mopping-up operations continue with two crew and a field observer on site. Extinguishment of this fire is nearing completion with a monitoring crew assigned overnight.

Rabbit Island confirmed at 3ha 650m perimeter and no longer staffed, but fire observers are monitoring. This will be flown for hotspots using infrared drones.

A controlled burning operation was carried out successfully Sunday 10th on a section of the fire perimeter in the Xray Division to bring the burnt edge of the fire out to the fire break. This tactic is used to consume fuel which would be available to the fire if it started to run up slope due to a strong wind behind it.

## **7. Action taken**

Current resources for fire management currently working on the vegetation fire (days shift) are:

- 10 helicopters and 1 drone team
- 18 vegetation crews, and 11 structure crews (151 personnel)
- 15 heavy machines (excavators and dozers) + additional 2 added at 0800hrs
- 47 incident management staff.

Helicopter resources are continuing to target the breakout area on the southeast boundary bordering Wakefield and heavy machinery has established control lines on 95% of the boundary on sectors Zulu and Yankee. The fireline established was jumped at 0530hrs, and a secondary containment line is being constructed by fellerbunchers and heavy machinery. Ground resources in this sector are also focused on the 800m fireline of active fire intensity.

Felling machinery underway around the Eve's Valley mill, removing Euc trees and on going extinguishment of hot spots.

Machinery and fellerbunchers will continue felling larger trees, shifting logs and extending a contingency control line to enhance the fire break in anticipation of the easterly wind, which was forecasted for Sunday on the western fire boundary. Fall back lines on the western boundary have had significant strengthening with work overnight and continuing today.

Fire observers continued working throughout fire-grounds including providing helicopter observation of areas which have potential for spotting.

Black-out work, machine fire breaking and hot spot targeting has continued on other parts of the fire ground.

Thursday 7 Feb, we established a No-Fly Zone over the fire ground, this will be in place until Monday 11, 5pm. The No-Fly zone is to 3000m and 3km from the red zone.

Structure crews have been deployed to key areas around the fire and the Wakefield township to provide additional support if needed.

During Sunday evening, three drone crews were deployed initially tasked with assessing properties and assets with a view to increasing the likelihood of their owners return. They completed a full perimeter survey of Pigeon Valley Fire and Atawhai Rd Fire for hot spots to provide direction to ground operations for Monday. They have also confirmed no change in perimeter or area overnight.

Additional structure crews and appliances, plus vegetation crews and other resources to facilitate rotation of crews for fatigue management.

A fire observer has continued to monitor the Atawhai Road fire.

Dozer control lines have contained around 98% of the perimeter to a minimum width of 6m, with greater than 10m. We now have a control line extending around the fire perimeter made up of Dozer lines, roadway and river bed.

The plan for a controlled understorey burn on the Cuthill sector has been undertaken today. A media release was timed to go out at the time of ignition.

During the late afternoon Saturday, there was a significant increase in fire activity in the Zulu Div near Cooks Rd which resulted in a growth of the fire perimeters. This "slop over" was under control by dark Sunday. The area has been measured by drones overnight and amounts to 3ha.

#### **8. Factors**

Extreme fire conditions. Limited non reticulated water supply. Steep terrain. Highly flammable complex dense vegetation with shrub understorey and ladders fuels throughout. Winds will stye in the NE quarter today in the low to mid 20s by afternoon

FENZ, Civil Defence and Police engaged positively with local iwi and tangata whenua Sunday (10.02.19) with no concerns. Maori Liaison is now in place with the IMT.

Temperature and relative humidity is tracking as expected for today. Tonight, there is a chance of drizzle or at least RH in the 90% area. There is a forecast wind change to SW later tonight with winds shifting more west tomorrow.

**9. Predicted Incident Development**

Weather forecasts are being updated every two hours, so we always have current information.

Overnight fire activity would have eased with lower temps and RH in the 90% (possible drizzle). Winds are forecast to be SW today shifting further to the west during the day. Wind strengths will be in the range of 15 – 20kph with gusts in the 30s. The shift to the west will bring dryer conditions for a time with temps in the higher 20s and RH in the 40s. Fire behaviour will likely increase during this time with observations yesterday showing active flame when RH was in the 50s and temps were in the mid-20s.

SW through W winds today will put pressure on the E through NE sections of the fire perimeter, especially as the day warms up and gets dryer. The forecast increased windspeed during the afternoon will further heighten the pressure at these locations. With the warmer, dryer conditions it is likely that sub-surface hot spots will surface and show flame.

Through the week, the weather will be warm and dry with temperatures in the mid 20's and RH in the low 50's later in the week. Over the next 14 days there is very low probability of rain exceeding 5mm.

**10. Prepared by:** [REDACTED]

**Date/Time:**

**Authorised by** [REDACTED] **(Incident Controller)**

1700hrs 11th Feb 2019

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<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 12/2/2019 Time 0700 - 1900	<b>FIRE BEHAVIOUR FORECAST</b>
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General Weather Overview											
<p><b>Tonight:</b> NE , 10 – 15 km/h with gust easing and wind gradually turning SW around 11pm 10kph or less. There is a slight chance of drizzle between 2am and 6am or at least RH will be around 90%. Early morning temps near 15C</p> <p><b>Tomorrow</b> SW throughout the morning turning more westerly after 12pm. Wind in the morning 5-10kph increasing to 10-15kph during the afternoon. Wind could increase to 20 –25kph with gusts in the 30s later in the day. Temps range 14 – 26 C and RH 95% dropping to the 40s</p>											
Fire weather @ 1300hrs											
Weather Station	Temp	RH	WD	WS	Prec	FFMC	DMC	DC	ISI	BUI	FWI
<b>Dovedale</b>											
Feb 11 Actual	25	55	NNE	16	0	87	106	491	5.9	138	25
Feb 12 Forecast	23	60	WNW	11	0	88	110	505	5.4	143	24
General Fire Behavior											
Overnight fire behaviour will ease, increasing through the day Tuesday as the westerly brings warmer and dryer conditions.											
Specific Fire Behaviour											
Fuel Type		Forecast 1300 ROS/ Flame Height <i>(No Suppression)</i>					Peak ROS / Flame height				
Mature Pine		66 m/hr 2 m					693m/hr 6m				
Grass (GC90%,C100%)		510m/hr 1.5m					2662m/hr 4m				
Specific Activities											
Night conditions will be good for blackout and mop-up. During Tuesday morning it will be a good opportunity to make progress while fire activity is relatively low. Later in the day the warmer and dryer conditions will increase fire behaviour.											
SAFETY ADVISORY											
Wind conditions in afternoon Tuesday will cause tree windthrow danger due to damaged root plates.											
The SW wind increase later Tuesday will put pressure on the NE sectors.											

RISK MATRIX	FFMC	DMC	DC	ISI	BUI	FWI
	Ignition Potential	Mop Up Difficulty	Rate of Spread	Fuel Availability	Fire Intensity	
LOW	0+	0+	0+	0+	0+	0+
MODERATE	75+	21+	101+	5+	16+	4+
HIGH	85+	31+	176+	9+	31+	14+
VERY HIGH	88+	41+	251+	13+	46+	24+
EXTREME	92+	46+	326+	16+	61+	29+

<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 12/2/2019 Time 0700 - 1900	<b>INCIDENT OBJECTIVES</b> RF202
<b>3. Overall Incident Objectives</b> <ol style="list-style-type: none"> <li>1. Ensure the safety of responders and public at all times during the incident</li> <li>2. Minimise the impact on structures, infrastructure, assets and values during the incident</li> <li>3. Minimise impact on environment, culture and historic values during the incident</li> <li>4. Ensure communication and information, liaison with stakeholders/ community/ public/ government bodies and affected parties is timely, meets standards and requirements at all times during the incident</li> <li>5. Report on costs on a daily basis by 1800</li> <li>6. Return community to homes/normal life as soon as practicable</li> <li>7. Investigate cause (including protect initial ignition site and evidence)</li> </ol>		
<b>4. Strategies to meet objectives</b> <ol style="list-style-type: none"> <li>1. Create a safety plan and safety briefing for all staff and contractors. Monitor fire behaviour and establish triggers and cordons for withdrawals and evacuation.</li> <li>2. Use media, trusted community channels and stakeholders to establish communications and engagements. Establish regular briefings and updates.</li> <li>3. Identify critical infrastructure, assets and values. Structures have structure protection crews and technical liaison where required. Water courses and dip sites identified with environmental protection.</li> <li>4. Cultural/Historical/environmental values identified on incident ground (Actual and projected)</li> <li>5. Financial reporting established and continued</li> <li>6. Create a recovery plan with community and stakeholders to assist post incident. <ul style="list-style-type: none"> <li>• Consider operation delivery to minimise impacts in support of the recovery plan.</li> </ul> </li> </ol>		
Specific operational tasks for this shift to meet objectives <ul style="list-style-type: none"> <li>• Crew blacking out to 30m in 10m increments</li> <li>• Patrol, and monitor all fire edges, focusing on prescribed burn in Zulu 1 and Eder and Cuthill roads</li> <li>• Urban appliances tasked for protection of identified structures and assets including cell phone towers, dairy farms and structures in Drones Rd, Teapot Valley, Pigeon Valley and Mill.</li> <li>• Heavy Machinery to create and strengthen firebreaks – focusing on Heine’s and Foxes Rd. New breaks on Golf Rd linkages</li> <li>• Tree Felling around Mill safe to do so</li> <li>• Initial Attack crew on standby from FOP</li> <li>• Aircraft to support ground operations</li> </ul>		
<b>5. Prepared by:</b> ██████████	<b>Date/Time:</b> 1900 11/2/19	

<b>1. Incident Name</b>	<b>2. Operational Period</b> Date 12/2/2019 Time 0700 - 1900	<b>ORGANISATION ASSIGNMENT</b> RF203
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<b>3. Incident Control</b>	<b>Phone</b>	<b>Radio Ch</b>
Incident Controller	[REDACTED]	
Deputy IC		
Public Information & Media		
Safety Officer		
Liaison Officer		

<b>4. Agency Representative</b>	<b>Phone</b>	<b>Radio Ch</b>
Lead Agency [REDACTED] FENZ	[REDACTED]	
Agency Police [REDACTED]		
Agency [REDACTED]		
Agency CDEM [REDACTED]		
Agency CDEM Duty Phone		
Agency FENZ Urban Liason [REDACTED]		

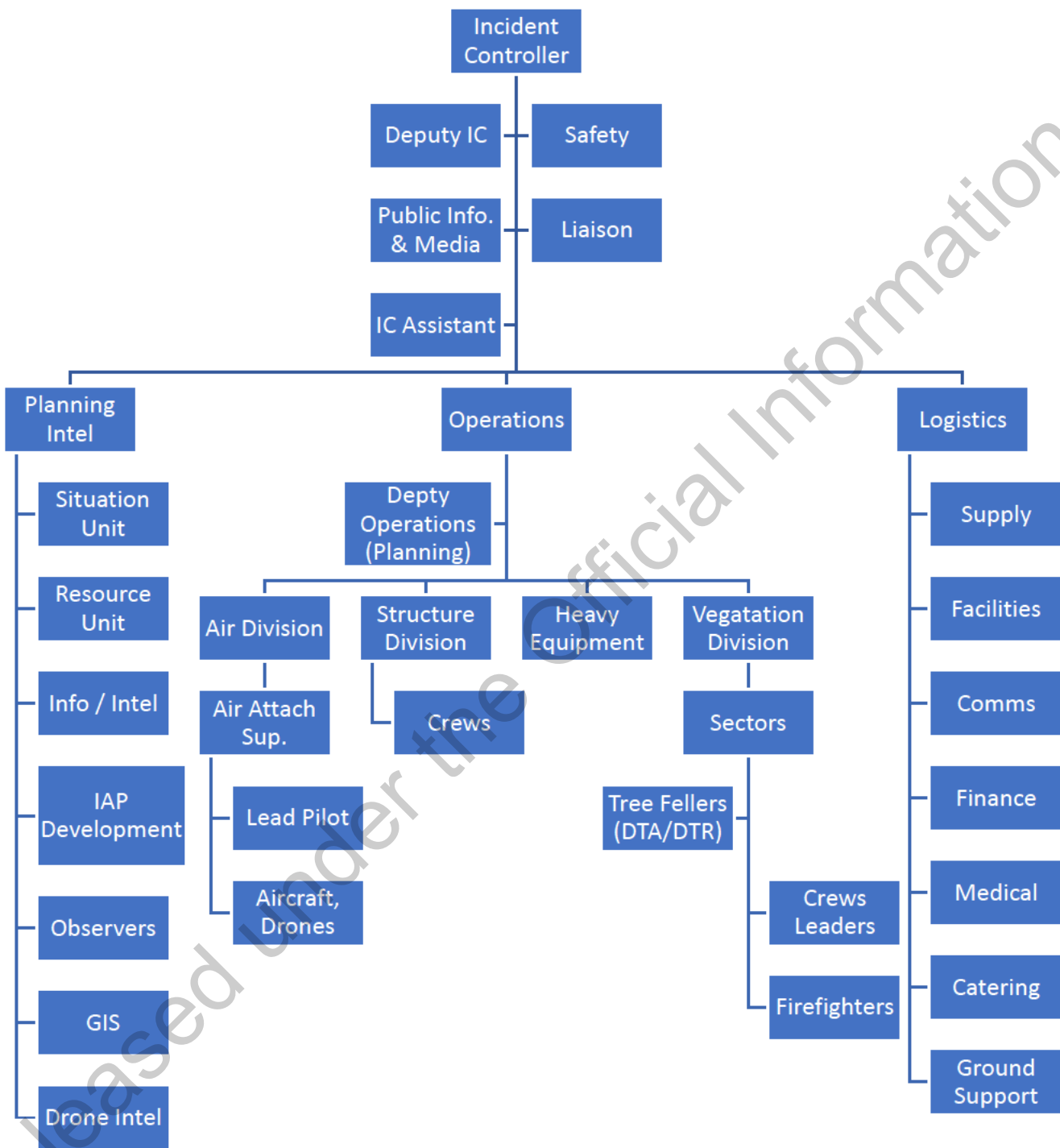
<b>5. Planning/Intell Section</b>	<b>Phone</b>	<b>Radio Ch</b>
Planning/Intell Manager	[REDACTED]	
Situations Unit		
Fire Behaviour		
Resources Unit		
Management Support Unit [REDACTED]		
Information Unit		
Advance Planning Unit [REDACTED]		

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**10. INCIDENT CONTROL STRUCTURE**



9. Prepared by: [REDACTED] Date/Time: 1900 11/2/19

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 12/2/2019 Time 0700 - 1900		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division / Sector</b> <b>ALPHA</b>		<b>4. Description</b> Point of ignition to Dove Saddle on Eder Rd			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>	<b>Radio Ch</b>		
██████████		██████████	Command: Fire Crew: Simplex		
<b>6. Resources Assigned this Period</b>					
<b>Sector</b>		<b>Supervisor</b>		<b>Crews</b>	
<b>Radio Ch</b>					
Bulldozer D7					
Excavator 20 T					
JNL + 4 PX					
Rai Silviculture 12px					
Doc South Canterbury 8px					
Tasman 2 tanker					
NZDF RFA 3px					
NZDF RFA 3px					
Dangerous Tree Assessor 2px					
<b>A1</b> Blackening to 30m along perimeter Structure protection in Sharp Valley Hot spotting according to map and thermal imaging					
<b>A2</b> Hotspot and blacken to achieve containment along perimeter of prescribed burn Finish Containment down to A1/A2					
<ul style="list-style-type: none"> <li>- DTA – Assess, mark, gps and control (Eliminate or isolate) all hazardous trees with a particular focus around structures and within 60m of roads and 60m from the black edge. To work ahead of ground crews.</li> <li>- Helicopters to support ground crews. Division Commanders to call Air Attack on Channel VHF 4 to request</li> </ul>					
Alpha 1 - Div break to Ford on Sharps Rd					
Alpha 2 – From ford on Sharps rd to Cuthill Johnsons Rd intersection (updated Div break)					
<b>8. Division Communications</b>				<b>Phone</b>	
<b>Radio Ch</b>					
Operations Manager		██████████		██████████	
				Fire 1/Cellphone	
Air Division Commander		██████████		██████████	
				Fire 4/Cellphone	
<b>10. Prepared By:</b> ██████████				Date/Time 1900 11/2/19	

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 12/2/2019 Time 0700 - 1900		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division / Sector</b> <b>XRAY</b>			<b>4. Description</b> Division from Cut hill Johnsons Rd to CHH saw mill		
<b>5. Division Commander</b>		<b>Affiliation</b>	<b>Phone</b>		<b>Radio Ch</b>
[REDACTED]		[REDACTED]	[REDACTED]		Fire 5
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	<i>Radio Ch</i>
Rai Silvi 4px					
Hawkes Bay Crew – 5px					
Tapawera 4wd Tanker 02		Hawkes Bay Crew			
716 smoke chaser		"			
D155 Dozer					
Nicholson Tanker		13,000 L			
Excavators x4					
Appleby Tanker					
NZDF RFA x7px					
Otago Crew + 5 PX					
Wainuiomata 9572 RFP 5px					
Dangerous Tree Assessor 2px					
<p>X1 Hotspot and blacken to achieve containment along perimeter of prescribed burn Machinery to continue widening fire breaks</p> <p>X2 Hotspot and blacken to achieve containment along perimeter Structure protection patrols</p> <p>X3 Checking hotspots south of Eves Valley Rd</p> <p><b>DTA</b> – Assess, mark, gps and control (Eliminate or isolate) all hazardous trees with a particular focus around structures and within 60m of roads and 60m from the black edge. Include trees outside fire perimeter that may have caught embers. To work ahead of ground crews.</p> <p>- <b>Helicopters</b> to support ground crews. Division Commanders to call Air Attack on Channel VHF 4 to request</p> <p>Xray 1 – Cuthill/Johnsons Red intersection (new Div break) to 5423000/1603000 Xray 2 - 5423000/1603000 to intersection of Redwood Valley Rd and Red Stage lane Xray 3 - Redwood Valley Rd and Red Stage lane to Yankee div break</p>					
<b>8. Division Communications</b>				<b>Phone</b>	<b>Radio Ch</b>
Operations Manager [REDACTED]		[REDACTED]		[REDACTED]	Fire 1/Cellphone
Air Division Commander [REDACTED]		[REDACTED]		[REDACTED]	Fire 4/Cellphone
<b>11. Prepared By:</b> [REDACTED]				<b>Date/Time</b> 1900 11/2/19	
<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 12/2/2019			

Time 0700 - 1900

**DIVISION  
ASSIGNMENT**

RF204a

**3. Division****Yankee****4. Description**

Bennets Road to CHH saw mill at Eves Valley

**5. Division Commander****Affiliation****Phone****Radio Ch**

Bruce Forestry

Fire 3

**6. Resources Assigned this Period**

<i>Sector</i>	<i>Supervisor</i>	<i>Crews</i>	<i>Radio Ch</i>
2x Excavator 20T	Taylor's		
Bulldozer D8	Taylor's		
Brightwater 5026 + 4px			
Rural Tanker Downers + 1px			
Lake Rotoiti Smoke Chaser + 4 PX			
Ngatimoti 5325 Smoke Chaser +2			
Ngatimoti 5375 + 4px			
Wellington 1&2 RFA + 10 PX			
West Coast 8 PX And Smoke Chaser and Tanker			
Tapawera 4wd tanker 01			
Dangerous Tree Assessor 2px			

Y1

Blacken to achieve containment  
Hotspot as per thermal imaging

Y2

Protection of the mill and surrounding structures  
Significant hot spots perimeter sw of Mill  
Blacken to achieve containment

Helicopters to support ground operations as required. Division Commanders to call Air attack on VHF 4 with requirements

- DTA – Assess, mark, gps and control (Eliminate or isolate) all hazardous trees with a particular focus around structures and within 60m of roads and 60m from the black edge. To work ahead of ground crews.

Yankee 1 – South edge of mill to div break at Zulu

Yankee 2 – Xray div break to south edge of the mill

**8. Division Communications****Phone****Radio Ch**

Operations Manager

Fire 1/Cellphone

Air Division Commander

Fire 4/Cellphone

**12. Prepared By:**

Date/Time 1900 11/2/19

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 12/2/2019 Time 0700 – 1900		<b>DIVISION ASSIGNMENT</b> <small>RF204a</small>	
<b>3. Division</b> <b>Zulu</b>			<b>4. Description</b> Point of ignition to CHH saw mill		
<b>5. Division Commander</b>		<b>Affiliation</b>	<b>Phone</b>		<b>Radio Ch</b>
[REDACTED]		[REDACTED]	[REDACTED]		Fire 2
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	<i>Radio Ch</i>
4x Excavator 20T		TLC			
D65 Dozer		[REDACTED]			
Watertanker					
DOC Blenheim - USA 1 12px					
Doc Hauraki 5px					
Pumicelands 7px					
Ashburton 9011 4px					
Peel Forest Rural Tanker					
Timaru Smoke Chaser 1					
Timaru Smoke Chaser 2					
<p>Z1 Protection of cell tower with aircraft only Maintain mobility in this sector react to any break out (Priority area).</p> <p>Z2 Blacken perimeter into McCalls/Teapot Valley/Bennets Rd</p> <p>Helicopters to support ground operations as required. Division Commanders to call Air attack on VHF 4 with requirements</p> <p>Zulu 1 – Alpha div break to Barton Lane Zulu 2 – Barton lane to Yankee div break.</p>					
<b>8. Division Communications</b>			<b>Phone</b>		<b>Radio Ch</b>
Operations Manager [REDACTED]			[REDACTED]		Fire 1/Cellphone
Air Division Commander [REDACTED]			[REDACTED]		Fire 4/Cellphone
<b>13. Prepared By:</b> [REDACTED]			<b>Date/Time</b> 1900 11/2/19		

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 12/2/2019 Time 0700 – 1900		<b>DIVISION ASSIGNMENT</b> <small>RF204a</small>	
<b>3. Division</b> <b>ATAWHAI</b>			<b>4. Description</b>		
<b>5. Division Commander</b>		<i>Affiliation</i>	<i>Phone</i>		<i>Radio Ch</i>
[REDACTED]		FENZ	[REDACTED]		
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	<i>Radio Ch</i>
<b>7. Division Assignment/Special Instructions</b>					
<p>Dependent on previous nights assessment  Dispatch smoke chaser for assessment/continue hot spotting if required</p>					
<b>8. Division Communications</b>				<i>Phone</i>	<i>Radio Ch</i>
Operations Manager		[REDACTED]		[REDACTED]	
Air Division Commander		[REDACTED]		[REDACTED]	
<b>14. Prepared By:</b> [REDACTED]				<b>Date/Time</b> 1900 11/2/2019	

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 12/2/2019 Time 0700 – 1900		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b>  <b>STRUCTURE PROTECTION</b>		<b>4. Description</b> Functional division across Pigeon Valley Incident			
<b>5. Division Commander</b>		<i>Affiliation</i>		<i>Phone</i>	
[REDACTED]		[REDACTED]		[REDACTED]	
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
Nelson 212 4px					
Nelson 213 4px					
Trag012 4px					
Nelson 2118 2px					
1 executive officers					
Newlands 291 4px					
Wainuiomata 441 4px					
Richmond 331 4x		<b>Auckland 1</b>			
<b>7. Division Assignment/Special Instructions</b>					
<ul style="list-style-type: none"> <li>• Coordinate urban requirements into divisions</li> <li>• Urban resources deployed into divisions are to work under direction of Div sup</li> </ul>					
 <b>NB Additional resources are available through firecom if required</b>					
<b>8. Division Communications</b>					
Operations Manager		[REDACTED]		[REDACTED]	
Air Division Commander		[REDACTED]		[REDACTED]	
				<i>Radio Ch</i>	
				Fire 1/Cellphone	
				Fire 4/Cellphone	
<b>15. Prepared By:</b> [REDACTED]				<b>Date/Time</b> 1900 11/2/19	

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 12/2/2019 Time 0700 – 1900		<b>DIVISION ASSIGNMENT</b> <small>RF204a</small>	
<b>3. Division</b> <b>INITIAL ATTACK</b>			<b>4. Description</b> Functional division across Pigeon Valley Incident		
<b>5. Division Commander</b>		<i>Affiliation</i>	<i>Phone</i>		<i>Radio Ch</i>
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
Brightwater 5071 via 111					
Hira Smoke Chaser via 111					
Upper Moutere VFB					
<b>7. Division Assignment/Special Instructions</b>					
<ul style="list-style-type: none"> <li>• Be available at FCP for immediate response to any new breakout or urgent support required. – Must have local knowledge</li> <li>• Smoke Chaser required 1800-2300 Neudorf Vineyard Concert</li> </ul>					
<b>8. Division Communications</b>					
Operations Manager			<i>Phone</i>		<i>Radio Ch</i>
Air Division Commander					
					Fire 1/Cellphone
					Fire 4/Cellphone
<b>16. Prepared By:</b>				<b>Date/Time</b>	
				1900 11/2/19	

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 12/2/2019 Time 0700 - 1900		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b>  <b>PROPERTY ASSESSMENTS</b>		<b>4. Description</b> Functional division across Pigeon Valley Incident			
<b>5. Division Commander</b>		<i>Affiliation</i>		<i>Phone</i>	
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
<i>Radio Ch</i>					
██████████		FENZ Liaison			
<b>7. Division Assignment/Special Instructions</b>					
<ol style="list-style-type: none"> <li>The property assessments are being planned and completed to ensure the safety of responders and residents during visitation and reoccupation. Fire danger risk assessments will be completed for each property, surrounding area and access routes. The risk assessments will include work on danger trees, condition of surrounding flammable fuels and built structures. These will be reviewed in relation to incident statues and predicted weather.</li> <li>The assessments will include staff from Civil defence, FENZ and specialist contractors as required.</li> <li>Liaison communications will be maintained with division commanders at all times when on the incident ground</li> <li>Timeline for the assessments to be confirmed</li> </ol>					
<b>8. Division Communications</b>				<i>Phone</i>	
Operations Manager		██████████		██████████	
Air Division Commander		██████████		██████████	
				<i>Radio Ch</i>	
				Fire 1/Cellphone	
				Fire 4/Cellphone	
<b>17. Prepared By:</b> ██████████				<b>Date/Time</b> 1900 11/2/19	

<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b>	Date 12/2/2019 Time 0700 - 1900	<b>AIR OPERATIONS PLAN</b> RF208
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<b>3. Personnel and Communications</b>			
Position	Name	Affiliation	Phone
Air Div Commander	[REDACTED]		
Air Attack Supervisor			Fire 4
Air Support Supervisor			
Lead Helicopter Pilot			
Lead Fixed-Wing Pilot			

<b>5. Location of Filling Points/Service Areas</b>	
Name	Grid Reference
Heli base	-41.31777, 137.10987
Fixed wing	41 22 39.9 S 173 05 04.6 E

**6. Safety Notes / Hazards / Radio Coverage Limitations**

- 7. Air Operations Special Equip or Service**
- Retardent filling crew (Fixed Wing) - [REDACTED]
  - Bryant Earthworks - [REDACTED]
    - 2x dip trucks
    - 1x dip truck and trailer
    - 5x support tankers

**8. Prepared By:** [REDACTED] **Date/Time:** 1900 11/2/19

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Company Name	Aircraft Type	Rego/Call Sign	Pilots Name	Bucket Size	Contact Number	Availability
<b>Rotary</b>						
Helicharter	500D	HXX	[REDACTED]	500L	[REDACTED]	Available
Garden City Heli	B3	IHL		1100L		Available
	BK	IVB		1100L		Available
Reid Heli	B2	HPE		900L		Available
	FX2	HEX		1000L		Available DS [REDACTED]
	B2	IOR		Platform		Available
	B2	HAA		1000L		Available
Southern Heli Lift	UH-1L	HUE		1500L		
Marlborough Heli	Long Ranger	HTA		650L		Available
Skyworks	B3	HWW		1050L		Available
Anderson	B2	HKA		1000L		Available
Murchison Heli	BA	ILW		680L/Platform		Available
<b>Drone</b>						
Interpine 2px	RPRS/UAV	PINES1	[REDACTED]		[REDACTED]	
Interpine 2px	RPRS/UAV	PINES2				
USAR 3px	RPRS/UAV	Romeo1				
USAR 3px	RPRS/UAV	Romeo2				

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 12/2/2019 Time 0700 - 1900		<b>COMMUNICATIONS PLAN</b> RF205	
<b>3. Radio Channels</b>					
<i>Assigned To</i>	<i>Function</i>	<i>Channel</i>	<i>Frequency</i>	<i>System</i>	
Command		Waimea 1	152.55000 RX 154.33125 TX		
Division Alpha	Operational	Fire 1	143.82500		
Division Zulu	Operational	Fire 2	143.78750		
Division Yankee	Operational	Fire 3	140.92500		
Division Xray	Operational	Fire 1	143.82500		
Air Ops -Heli	Operational	Fire 4	140.61250		
Air Ops – Fixed Wing	Operational	Fire 10	140.98750		
Emergency		Waimea 1	152.55000 RX 154.33125 TX		
Resources		Waimea 1	152.55000 RX 154.33125 TX		
FireCom		FireCom			
2 Hourly - Sitrep		OPSR2	Use mobile if difficult coms to FCP		
<b>4. Telephone</b>					
<i>Assigned To</i>	<i>Landline</i>	<i>Cell phone</i>	<i>Fax</i>	<i>Comments</i>	
Emergency		111			
Regional Command Centre (RCC)					
<b>6. Other (e.g. email, Satphone, etc)</b>					
Resources	<a href="mailto:resources@FENZNelsonIMT.com">resources@FENZNelsonIMT.com</a>				
Safety	<a href="mailto:safety@FENZNelsonIMT.com">safety@FENZNelsonIMT.com</a>				
Logistics	<a href="mailto:logistics@FENZNelsonIMT.com">logistics@FENZNelsonIMT.com</a>				
PIM	<a href="mailto:pim@FENZNelsonIMT.com">pim@FENZNelsonIMT.com</a>				
Planning	<a href="mailto:planning@FENZNelsonIMT.com">planning@FENZNelsonIMT.com</a>				
Forward Control Point ( FCP)	<a href="mailto:icu.nelson@fireemergency.nz">icu.nelson@fireemergency.nz</a> [REDACTED]				
Situation / GIS / Intel	<a href="mailto:situation@FENZNelsonIMT.com">situation@FENZNelsonIMT.com</a>				
Operations	<a href="mailto:operations@FENZNelsonIMT.com">operations@FENZNelsonIMT.com</a>				
Photos and imagery	Join Facebook site; Pigeon Valley Fire - INTERNAL COMMS			<a href="https://www.facebook.com/groups/1924082991035550/">https://www.facebook.com/groups/1924082991035550/</a>	
<b>6. Prepared by:</b> [REDACTED]				<b>Date/Time</b> 1900 11/2/19	

<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 12/2/2019 Time 0700 - 1900	<b>SAFETY PLAN</b> RF209
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**3. General Safety Points**

Everyone is to be signed in and out of the fire ground through the Incident Control Point for both safety check and payment records (Complete DTR's).

Maintain regular situation reports especially kestrel observations (containing all relevant information) via line supervisors.

LACES	Fire Orders	Watchouts
<b>L</b> - Lookout(s) <b>A</b> - Awareness - Anchor Point(s) <b>C</b> - Communication(s) <b>E</b> - Escape Route(s) <b>S</b> - Safety Zone(s)	<ol style="list-style-type: none"> <li>1. conditions and forecasts</li> <li>2. Know what your fire is doing at all times.</li> <li>3. Base all actions on current and expected fire behaviour of the fire.</li> <li>4. Identify escape routes and safety zones and make them known.</li> <li>5. <b>Post</b> lookouts when there is possible danger.</li> <li>6. <b>Stay</b> alert. Keep calm, Think clearly, act decisively.</li> <li>7. Maintain prompt communication with your crew/s, your supervisor and adjoining crews.</li> <li>8. Give clear instructions and ensure they are understood.</li> <li>9. Maintain control of your crew/s at all times.</li> <li>10. Fight fire aggressively having provided for safety first.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fire size is unknown (no size up).</li> <li>2. Unfamiliar territory</li> <li>3. Safety zones and escape routes not identified.</li> <li>4. Unfamiliar with weather and local factors influencing fire behaviour.</li> <li>5. No communications link with crew members or supervisor.</li> <li>6. Instructions and assignments not clear.</li> <li>7. Weather is getting hotter, drier and relative humidity dropping</li> <li>8. Wind increases and/or changes direction.</li> <li>9. Getting frequent spot fires across the line</li> <li>10. Working uphill or down wind of a fire</li> <li>11. Working on a steep slope</li> <li>12. Working in rugged terrain</li> <li>13. Can't see main fire</li> <li>14. In unburnt vegetation</li> <li>15. Walking through hot ashes</li> <li>16. Working alone</li> <li>17. Getting tired</li> <li>18. Working near power lines</li> <li>19. Working near machinery</li> <li>20. Working with aircraft</li> <li>21. Working around trees or spars</li> </ol>

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#### 4. Specific Safety Points

- All access points into fire are controlled. Only those authorized to enter and they must receive a briefing and be logged including time and point of access
- Public access managed by cordons
- Weather fire behaviour monitored for changes and communicated to crews. Use kestrels to gather weather data. Risk identified to crews.
- All crews to have adequate food, water, PPE to manage fatigue and hydration.
- Work rest periods enforced. Seek shade during rest period.
- Ensure nine-hour rest periods before returning to fire ground.
- Crews to have identified emergency escape routes and emergency plan in the event of harm. Meeting at pre-identified evacuation point once evacuated.
- All workers to ensure they are competent for the tasks and risks given.
- Air and ground crews to be isolated from risk areas during operations.
- Potential methane flares (Division Yankee) from Eves Valley Landfill. Avoid if possible.
- Avoid skid sites where stability of surface cannot be assured.
- Particular care in smoke, work in smoke and traveling in smoke.
- Ensure operational separation from Air-ops at forward command post
- Follow carpark signage at Forward command post
- Report all incidents and near misses to safety officer.
- Be sun smart, use hats and cover completely.
- Drive carefully in the vicinity of the Brightwater community
- Ensure under garments are flame resistant
- Forestry tracks & road speed 20 km/hr. Use beacons/ lights etc. Not response speed!
- Seat belts must be worn at all times
- Big trees with root plates compromised
- Ensure safe distance from felling machines (2 tree lengths ~ 80m minimum)
- Breakfast @ 0600-0800, Lunch @ 1100 – 1300, Dinner 1800 – 2000
- Fatigue campaign fire
- Dangerous tree assessors – Ensure all crew members are competent and equipped for task (including PPE).

5. Prepared By: [REDACTED]

Date/Time 1900 11/2/19

<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 12/2/2019 Time 0700 - 1900	<b>MEDICAL PLAN</b> RF206
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<b>3. First Aid Station Name</b>	<b>Location</b>	<b>Phone/Radio Channel</b>	<b>Paramedics available at Station</b>
Each Crew must have available one First aid Level 1 Certified	Each crew		
Nelson 91 Ambulance	Forward command post	Waimea 1	1 Paramedic and 1 EMT

<b>4. Transportation Ambulance Service</b>	<b>Address</b>	<b>Phone/Radio Channel</b>	<b>Paramedics available with Ambulance</b>
Ambulance St Johns	Closest unit	111	Yes

<b>5. Hospitals Hospital Name</b>	<b>Address</b>	<b>Phone</b>	<b>Road</b>	<b>Travel Time</b>		<b>Burn Unit</b>	<b>Heli Pad</b>
				<b>Air</b>	<b>Road</b>		
Nelson Public Emergency	Waimea Rd.	111	27m	4min		y	y
Hutt Hospital (Burn Unit)		111	n/a	40min		Y	y

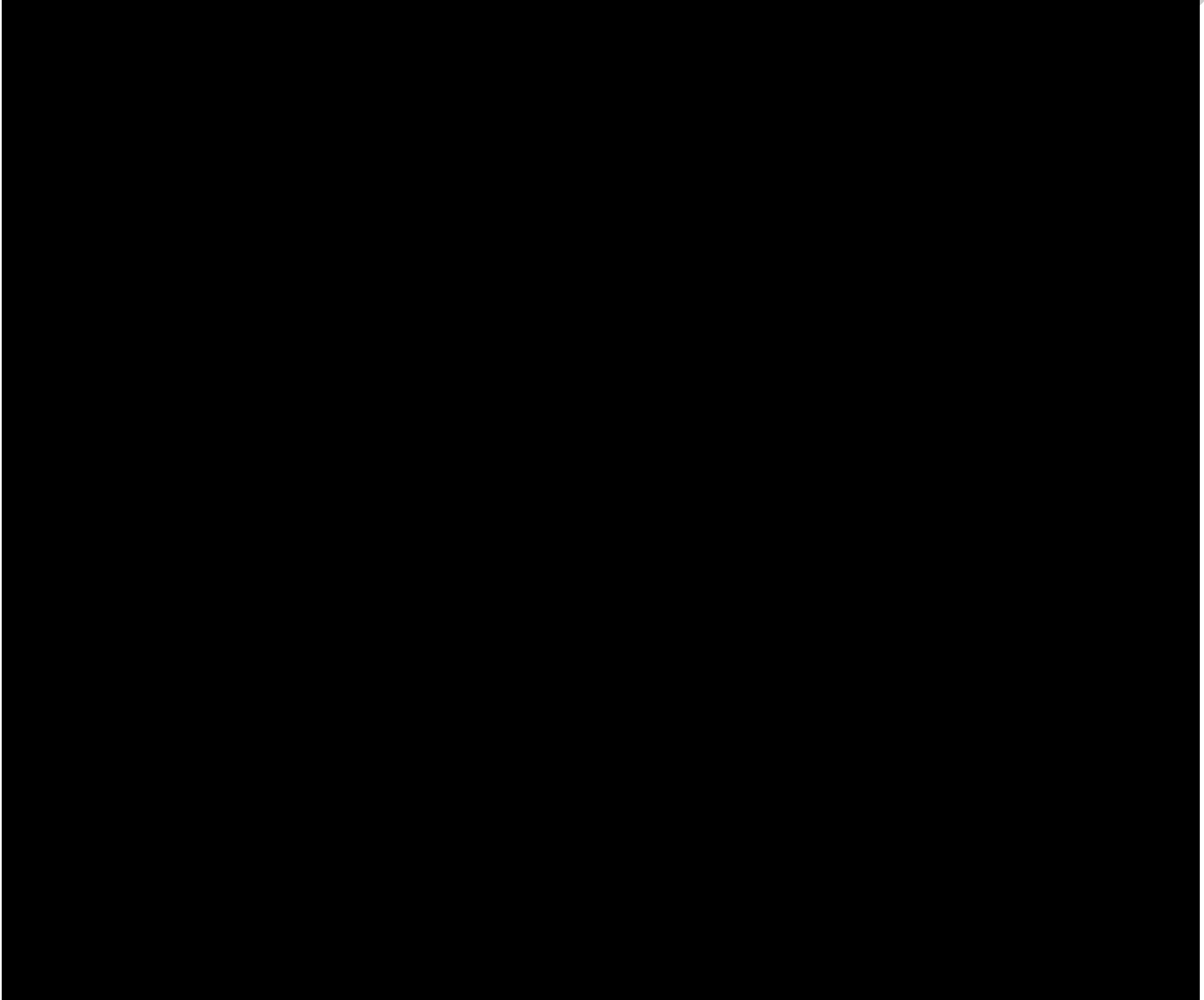
**6. Special Emergency Procedures**

St John will transport patients to whichever health facility is appropriate

<b>7. Prepared By:</b> [REDACTED] Shift - Manager Nelson	<b>Date/Time</b> 1900 11/2/19
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<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 12/2/2019 Time 0700 - 1900	<b>MAPS</b> RF
<b>3.</b> Download Avenza Maps app on iOS and Android, Scan the Following Codes to Access Digital Maps you can navigate with. These codes generally do no change, therefore to get tomorrow's map you can scan the old map code. Present a smartphone camera to see these codes or scan using QR code reader app.		

## QR CODES FOR MAP DOWNLOAD



Act

Released



<b>1. Incident Name</b> Pigeon Valley Fire, Nelson	<b>2. Operational Period</b> 12/02/2019 – 0700 to 1900
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### FENZ Stakeholders and Audience Groups

Organisation	Detail	Name	Contact Info
FENZ Org (forward system to ELT, NCC, OCE and Board)	Requires regular updates – committed to 4x updates daily at 0830hrs, 1100hrs, 1500hrs and 1830hrs. Additionally a phone call every hour	RCC Christchurch	RCC R4 & R2, NCC, [REDACTED], [REDACTED], [REDACTED] Nelson Tasman CD Planning & Intel, NIMT Situation Unit, Comms Team
Evacuated Residents	Community Meeting – next one on Monday 11 <sup>th</sup> Feb @ 5.30pm, Appleby School.	Various	Comms through social media, Civil Defence website, welfare team and media.
Interested Public	Local community (not evacuated) and wider	Various	Social media posts, Civil Defence website, FENZ website, media outlets
Cordons	Managed by Police, kept updated via PIM team		Police Liaison in IMT
IMT and Support Staff	Information to help their roles	*See structure charts	Briefings, meetings, conversations between the teams, Sit Reps
Media Outlets	Require full-time management and contact	*See media list	

Direct message distribution	Details of the specific sites or types
Websites	Nelson Tasman Civil Defence - <a href="http://www.nelontasmancivildefence.co.nz/">http://www.nelontasmancivildefence.co.nz/</a> Fire and Emergency NZ <a href="http://www.fireandemergency.nz">www.fireandemergency.nz</a>
Social media	<b>Main channel is:</b> Nelson Tasman Civil Defence facebook page Fire and Emergency NZ facebook page Tasman-Malborough Fire Area facebook page
Helpline	Welfare Helpline – 03 543 8400
Information points	Cordons (located as per map)
Community contacts/meetings	Community Meeting Monday 11 <sup>th</sup> February – details TBC.
Media message distribution	Specific stations or publications
Radio	*See media list

TV	
Newspapers	
<b>Media</b>	<b>Schedule</b>
Media briefing/conferences	Media Stand Up at 0830hrs. Media Stand Up at 1600hrs. 2 hourly Media Releases
Media site visits	
Interviews	Regular interviews with FENZ personnel
<b>Message monitoring</b>	
<p>Messaging is being monitored by Civil Defence PIM Team and dealt with / passed on accordingly. FENZ PIM team are supporting for Media management and FENZ / Operational information requiring to be gathered and shared.</p>	

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<b>Incident Name</b>  Pigeon Valley	<b>Operational Period</b>	<b>IAP COVER SHEET</b> RF199
	Date 12&13/2/2019 Time 1900 – 0700	

<b>Incident Name</b>	<b>Operational Period</b>	<b>IAP COVER SHEET</b>
Pigeon Valley	Date 12&13/2/2019 Time 1900 – 0700	RF199

### INCIDENT ACTION PLAN

The items checked below are included in the incident Action Plan

- SITUATION REPORT
- WEATHER & FIRE BEHAVIOUR FORECAST
- INCIDENT OBJECTIVES
- ORGANISATIONAL LIST
- SECTOR ASSIGNMENT
- DIVISIONAL ASSIGNMENT
- AIR OPERATIONS PLAN
- COMMUNICATION PLAN
- SAFETY PLAN
- MEDICAL PLAN
- FIRE MAP & DOWNLOAD QR CODES
- PUBLIC INFORMATION & MEDIA



<b>Approved by Incident Controller:</b>	<b>Signed</b>	<b>Date/Time</b>
Name [Redacted]	[Redacted]	1800 12/2/19



<b>Approved by Incident Controller:</b>	<b>Signed</b>	<b>Date/Time</b>
Name [Redacted]		1800 12/2/19



<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 12/2/2019 Time 1400 - 1900	<b>SITUATION</b> <b>REPORT</b> RF201
<b>3. Location</b> Pigeon Rd, Eves Valley, Tasman	<b>4. Vegetation</b> Forest/Scrub/Grass/Slash/ Other:	<b>5. World Grid Scale 84.</b> 41°22'32.51"S 173° 1'31.81"E

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Latest information as at **1400** 12/2/2019:

A firefighter has been transported to hospital by St John Ambulance with dehydration. St John Ambulance have advised that firefighters should be drinking electrolyte drinks rather than energy drinks. The Safety Advisor has notified crews to drink electrolyte drinks.

A new National Incident Management Team formally took over the fire at 1500hrs on 11th of February.

Re-entry for residents in the Wakefield area was approved yesterday (Monday 11/02/2019) by Civil Defence Emergency Management and facilitation of Wakefield residents back into their property has been undertaken by Police and NZDF.

Four drone teams were deployed onto the fire ground last night. The entire perimeter of Pigeon Valley Fire and Atawhai Fire were surveyed. A large quantity of hotspots were identified in Sector X-Ray and Yankee. A smaller number of hotspots have been located in Sector Alpha and Zulu.

As the cloud cover has decreased over the past week, we have managed to get more accurate measurements of the fire ground due to digitally enhanced satellite images. This means that the latest data shows the Pigeon valley Fire is about 2,400 ha, with a perimeter of 33.5 km. This latest data shows that although the fire perimeter is larger than initially estimated, there is a small decrease in overall hectares burnt. (Note: Fire edge is now more defined and maps have been updated to reflect this.) Please note, that as we work to get more accurate images and data that this information will be subject to change.

The fire that started on the 8 Feb at Atawhai Road, called Walters Bluff Fire, is now under control. However, a number of hotspots have been identified overnight.

**Note : State of emergency extended to 20<sup>th</sup> Feb.**

Division X-Ray - Working on known hotspots, and cold trailing around the properties.

Division Yankee – Dangerous tree assessments are continuing in this area by assessors. Crews continuing to work multiple hotspots within the Division.

Division Alpha – Crews are continuing to blackout and extinguish hotspots.

Division Zulu - Crews are continuing to blackout and extinguish hotspots.

Atawhai Fire – Crews are extinguishing hotspots that were identified on Monday night (12/02/2019).

Dangerous trees are being identified and marked with flagging tape and GPS location marked. These dangerous trees have been passed on to Operations for actioning.

Rabbit Island confirmed at 3ha 650m perimeter and no longer staffed, but fire observers are monitoring. This will be flown for hotspots using infrared drones.

Tuesday 12 Feb - 0700-01900 day resourcing will be:

- 16 four person and one 5 person vegetation crews.

- 9 Smoke chasers
- 4 4x4 Tankers
- 6 Bulk water tanker
- 8 Rural appliances
- 8 Excavators
- 5 Dozers
- 1 Feller buncher
- 4 Division Supervisors
- 16 Tree Assessors
- 2 Urban crews
- 9 Helicopters
- 3 Drone Crews

Tuesday 12 Feb - 1900-0700 - night resources will be:

- 8 crews four person crews
- 3 smoke chasers
- 4 4\*4 Tankers
- 3 bulk water tankers
- 9 rural appliances
- 5 Excavators
- 2 Dozers
- 2 feller buncher's
- 4 Division supervisors

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## 6. Assessment

As at 0800hrs on 12 Feb, a large scrub/forest fire is currently burning, estimated to be over 2400ha with a perimeter of 33.5km extending primarily in the Pigeon Valley area and north western boundary.

Values at risk are life, livestock and property.

Local crews and heavy machinery successfully protected nearby residential properties under very challenging fire conditions on Thursday. The fire is backed up on several structures close to the forest boundary on the south-east but is being protected by effective fire breaks which were established Thursday night. Machinery fire control lines now extend around 90% of sectors Zulu and Yankee.

Evacuation operations were conducted Friday across Wakefield, based on predicted rates of fire spread in the event another breakout occurs and a front is generated. This was jointly decided upon between Police, Civil Defence and FENZ that evacuation of the Wakefield residents, which incrementally commenced Friday afternoon. With the suppression effort, the arrival of the fire at the Evacuation trigger points was delayed, with the fire reaching this point at 0030, Sat 9 Feb at night, when favourable wind and weather conditions helped slow further progression.

A huge effort was invested in this area Saturday and Sunday, to allow this part of the fire to progressively burn downhill to the riverflats. To date, we have been successful in extinguishing the fire as it comes out of the pine plantation into the scrub and grassland.

A telecommunications site on the end of Cooks Rd (near Wakefield) is at risk with northerly wind. These towers have had fire retardant applied to assist in protecting them and firebreak work continues to help with this. Two contingency mobile sites have been installed near Wakefield so that the communications at Wakefield will be maintained in the event the current site becomes damaged.

The fire that started on the 8 Feb at Atawhai Road, called Walters Bluff Fire, is now under control operations continue with two crew and a field observer on site. Extinguishment of this fire is nearing completion with a monitoring crew assigned overnight.

A controlled burning operation was carried out successfully on Sunday on a section of the fire perimeter in the Xray Division to bring the burnt edge of the fire out to the fire break. This tactic is used to consume fuel which would be available to the fire if it started to run up slope due to a strong wind behind it.



## 7. Action taken

Machinery and feller/bunchers will continue felling larger trees, shifting logs and extending a contingency control line to enhance the fire break in anticipation of the easterly wind, which was forecasted for Sunday on the western fire boundary. Fall back lines on the western boundary have had significant strengthening with work overnight and continuing today.

Fire observers continued working throughout fire-grounds including providing helicopter observation of areas which have potential for spotting.

Black-out work, machine fire breaking and hot spot targeting has continued on other parts of the fire ground.

Thursday 7 Feb, we established a restricted air space over the fire ground and it has been extended out to Sat 16th 5pm. The No-Fly zone is to 3000m and 3km from the red zone.

Structure crews have been deployed to key areas around the fire and the Wakefield township to provide additional support if needed.

Additional structure crews and appliances, plus vegetation crews and other resources to facilitate rotation of crews for fatigue management.

Dozer control lines have contained around 92% of the perimeter to a minimum width of 6m, with greater than 10m. We now have a control line extending around the fire perimeter made up of Dozer lines, roadway and river bed.

2 crews currently observing the fire in the field. 3 crews from tomorrow will be observing and verifying hot spots in the field.

Look to increase crew resources for blacking out operations. 10 m 1<sup>st</sup> then work through to 20 and 30

## 8. Factors

Extreme fire conditions. Limited non reticulated water supply. Steep terrain. Highly flammable complex dense vegetation with shrub understorey and ladders fuels throughout. Winds will be in southwest through to west

FENZ, Civil Defence and Police engaged positively with local iwi and tangata whenua Sunday (10.02.19) with no concerns. Maori Liaison is now in place with the IMT.

Temperature and relative humidity is tracking as expected for today with 1.4mm of rain recorded overnight at Nelson.

## 9. Predicted Incident Development

Weather forecast 12<sup>th</sup> Feb for Pigeon valley

### Forecast for Pigeon Valley area

Updated forecast for the Pigeon Valley area. 12:30

#### **11 am – 6 pm Tuesday**

**Rainfall:** None expected.

**Sustained wind:** WSW becoming WNW by 2:00 pm and increasing to 10-15 km/h. Increasing further to 15-20 km/h after 6:00 pm.

**Wind gusts:** From 12:00-4:00 pm gusts of up to 40-45 km/h are expected. From 4:00 pm onward there is a risk of gusts up to around 50 km/h. Higher gusts of up to 55 km/h are possible over the highest terrain in the fire area.

**Temperature:** Currently 20°C, increasing to a maximum near 25°C at 4:00 pm.

**Humidity:** Near 65% currently, decreasing to an afternoon minimum of 45-50%.

Winds are forecast to be SW today shifting further to WNW during the day. Wind strengths will be in the range of 15 – 20kph with gusts in the 30s. The shift to the west will bring dryer conditions for a time with temps in the higher 20s and RH in the 40s. Fire behaviour will likely increase during this time with observations yesterday showing active flame when RH was in the 50s and temps were in the mid-20s.

The forecast increased windspeed during the afternoon will further heighten the danger of unstable trees caused by root plates being burnt.

**Wednesday (13th):** Sunny and warm. High temps mid-20s. Lowest RH in the 40s. Southwest wind 20 km/h gusts 30 km/h through to about midday. Changes northeast 15 km/h around midday, rises to 25 km/h gusting 35 km/h afternoon hours. Winds become light easterly in evening. No rain.

**Thursday (14th):** Southwest wind 10 km/h early hours, then northeast wind kicks in around 10:30 am (around 15 km/h), rises to 25 km/h gusts 35 km/h for afternoon hours. Winds ease off again evening. Top temps mid-20s, and lowest RH about 50%. No rain.

10. Prepared by: [REDACTED]

Authorised by [REDACTED] (Incident Controller)

Date/Time:

1400hrs 12th Feb 2019

<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 11&12/2/2019 Time 1900 – 0700	<b>WEATHER AND FIRE BEHAVIOUR FORECAST</b>
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**General Weather Overview**

**Tonight:** NE , 10 – 15 km/h with gust easing and wind gradually turning SW around 11pm 10kph or less. There is a slight chance of drizzle between 2am and 6am or at least RH will be around 90%. Early morning temps near 15C

**Tomorrow** SW throughout the morning turning more westerly after 12pm. Wind in the morning 5-10kph increasing to 10-15kph during the afternoon. Wind could increase to 20 –25kph with gusts in the 30s later in the day. Temps range 14 – 26 C and RH 95% dropping to the 40s

**Fire weather @ 1300hrs**

Weather Station	Temp	RH	WD	WS	Prec	FFMC	DMC	DC	ISI	BUI	FWI
<b>Dovedale</b>											
Feb 11 Actual	25	55	NNE	16	0	87	106	491	5.9	138	25
Feb 12 Forecast	23	60	WNW	11	0	88	110	505	5.4	143	24

**General Fire Behavior**

Overnight fire behaviour will ease, increasing through the day Tuesday as the westerly brings warmer and dryer conditions.

**Specific Fire Behaviour**

Fuel Type	Forecast 1300 ROS/ Flame Height <i>(No Suppression)</i>	Peak ROS / Flame height
Mature Pine	66 m/hr 2 m	693m/hr 6m
Grass (GC90%,C100%)	510m/hr 1.5m	2662m/hr 4m

**Specific Activities**

Night conditions will be good for blackout and mop-up. During Tuesday morning it will be a good opportunity to make progress while fire activity is relatively low. Later in the day the warmer and dryer conditions will increase fire behaviour.

**SAFETY ADVISORY**

Wind conditions in afternoon Tuesday will cause tree windthrow danger due to damaged root plates.

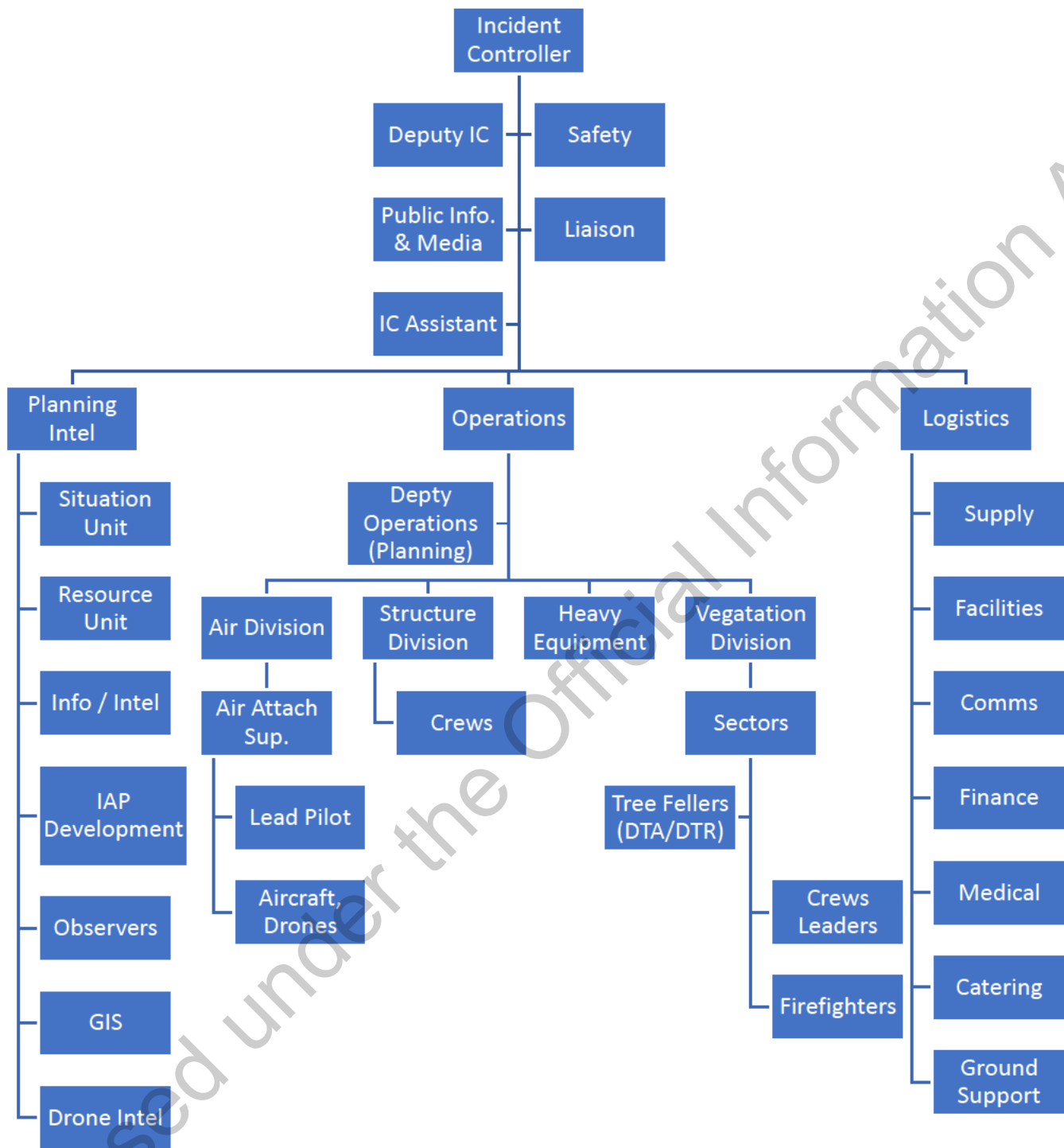
The SW wind increase later Tuesday will put pressure on the NE sectors.

RISK MATRIX	FFMC	DMC	DC	ISI	BUI	FWI
	Ignition Potential	Mop Up Difficulty		Rate of Spread	Fuel Availability	Fire Intensity
LOW	0+	0+	0+	0+	0+	0+
MODERATE	75+	21+	101+	5+	16+	4+
HIGH	85+	31+	176+	9+	31+	14+
VERY HIGH	88+	41+	251+	13+	46+	24+
EXTREME	92+	46+	326+	16+	61+	29+

<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 12&13/2/2019 Time 1900 – 0700	<b>INCIDENT OBJECTIVES</b> RF202
<b>3. Overall Incident Objectives</b> <ol style="list-style-type: none"> <li>1. Ensure the safety of responders and public at all times during the incident</li> <li>2. Minimise the impact on structures, infrastructure, assets and values during the incident</li> <li>3. Minimise impact on environment, culture and historic values during the incident</li> <li>4. Ensure communication and information, liaison with stakeholders/ community/ public/ government bodies and affected parties is timely, meets standards and requirements at all times during the incident</li> <li>5. Report on costs on a daily basis by 1800</li> <li>6. Return community to homes/normal life as soon as practicable</li> </ol>		
<b>4. Strategies to meet objectives</b> <ol style="list-style-type: none"> <li>1. Create a safety plan and safety briefing for all staff and contractors. Monitor fire behaviour and establish triggers and cordons for withdrawals and evacuation.</li> <li>2. Use media, trusted community channels and stakeholders to establish communications and engagements. Establish regular briefings and updates.</li> <li>3. Identify critical infrastructure, assets and values. Structures have structure protection crews and technical liaison where required. Water courses and dip sites identified with environmental protection.</li> <li>4. Cultural/Historical/environmental values identified on incident ground (Actual and projected)</li> <li>5. Financial reporting established and continued</li> <li>6. Create a recovery plan with community and stakeholders to assist post incident. <ul style="list-style-type: none"> <li>• Consider operation delivery to minimise impacts in support of the recovery plan.</li> </ul> </li> </ol>		
<b>5. Specific operational tasks for this shift to meet objectives</b> <ul style="list-style-type: none"> <li>• Crew blacking out to 30m in 10m increments</li> <li>• Patrol, and monitor all fire edges, focusing on prescribed burn in Zulu 1 and Eder and Cuthill roads</li> <li>• Protection of identified structures and assets including cell phone towers, dairy farms and structures in Drons Rd, Teapot Valley, Pigeon Valley and Mill.</li> <li>• Create and strengthen firebreaks – focusing on Heines and Foxes Rd. New breaks on Golf Rd linkages</li> <li>• RPA/UAV/Drone hotspot and perimeter surveys in Pigeon, Atawhai and Rabbit Island if time allows</li> </ul>		
<b>5. Prepared by:</b> ██████████	<b>Date/Time:</b> 12/2/19 1400hrs	

<b>1. Incident Name</b>	<b>2. Operational Period</b> Date 12&13/2/2019 Time 1900 – 0700	<b>ORGANISATION ASSIGNMENT</b> RF203	
<b>3. Incident Control</b>  Incident Controller [REDACTED] (NIMT) (Emergency)  Deputy IC [REDACTED]  Safety Officer [REDACTED] [REDACTED] (NIMT) (Emergency)		[REDACTED]	Last Date on Fire 18/2/19 18/2/19  18/2/19
<b>4. Agency Representative - Emergency contacts</b>  Lead Agency [REDACTED] FENZ Agency Police [REDACTED] Agency CDEM [REDACTED] Agency CDEM Duty Phone Agency FENZ Urban Liason		Phone [REDACTED]	Last Date on Fire  15/2/19 17/2/19  
<b>5. Planning/Intell Section - Emergency contacts</b>  Planning/Intell Manager [REDACTED] Situations Unit [REDACTED] Resources Unit [REDACTED]		Phone [REDACTED]	Last Date on Fire 18/2/19 18/2/19 13/2/19
<b>6. Logistics Section - Emergency contacts</b>  Logistics Manager [REDACTED] (NIMT)		Phone [REDACTED]	Last Date on Fire 20/2/19
<b>7. Operations Section</b>  Operations Manager Deputy Operations Manager Division Alpha Commander Division Xray Commander Division Yankee Commander Division Zulu Commander Division Atawhai Commander Air Division – Drone  Air Division Commander		Phone [REDACTED]	Last Date on Fire     16/2/19  
<b>8. Prepared by:</b> [REDACTED]		Date/Time: 12/2/19 1800hrs	

**10. INCIDENT CONTROL STRUCTURE**



9. Prepared by: [REDACTED]	Date/Time: 1800 12/2/19
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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 12&13/2/2019 Time 1900 – 0700		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> <b>Alpha</b>		<b>4. Description</b> Point of ignition to Dove Saddle on Eder Rd			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>	<b>Radio Ch</b>		
██████████		██████████			
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>	<i>Supervisor</i>	<i>Crews</i>	<i>Last Date on Fire</i>		
NFM 10px Crew					
Thermal Imaging crew 2px					
Taylor's Excavator1					
Taylor's Excavator1					
Taylor's Dozer1					
Taylor's Dozer2					
Taylor's Tanker1					
Taylor's Tanker 2					
<b>7. Division Assignment/Special Instructions</b>					
<ul style="list-style-type: none"> <li>• A1 Patrol/protect structures. Keep mobile resources for immediate response, hotspotting as per map. Blackout to 10m from Zulu1/Alpha1 boundary towards Forestry rd</li> <li>• A2 Blackout to 10m from Forestry Rd towards Alpha2/Xray1 boundary</li> </ul> <p>Alpha 1 - Div break to Ford on Sharps Rd Alpha 2 – From ford on Sharps rd to Cuthill Johnsons Rd intersection (updated Div break)</p>					
<b>8. Division Communications</b>			<i>Phone</i>	<i>Radio Ch</i>	
Operations Manager	██████████		██████████		
<b>10. Prepared By:</b> ██████████			<b>Date/Time</b> 12/2/19 1700hrs		

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 12&13/2/2019 Time 1900 – 0700		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> <b>Xray</b>		<b>4. Description</b> Division from Cut hill Johnsons Rd to CHH saw mill			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>	<b>Radio Ch</b>		
██████████					
<b>6. Resources Assigned this Period</b>					
<b>Sector</b>	<b>Supervisor</b>	<b>Crews</b>	Last Date on Fire		
Buck Forestry 4px	██████████ ██████████				
NFM3 4px					
2x 4x4 Tankers NFL01, NFL02					
5475 Rural Appliance					
Appleby Tanker					
Brightwater 5071 – Rural Appliance					
RD JD850 Dozer					
Feller Buncher					
Thermal Imaging crew 2px					
<b>7. Division Assignment/Special Instructions</b>					
<p>Xray 1          -Continue widening containment line – felling machine          -Patrol and protect structures. Keep mobile resources for immediate response. Hotspotting as per map.          -blackout to 30m from Alpha2/Xray1 boundary towards Red Stag Lane          Xray 2&amp;3 blackout to 30m Red Stag Lane to Yankee 2 Boundary</p> <p>Xray 1 – Cuthill/Johnsons Red intersection (new Div break) to 5423000/1603000          Xray 2 - 5423000/1603000 to intersection of Redwood Valley Rd and Red Stage lane          Xray 3 - Redwood Valley Rd and Red Stage lane to Yankee div break</p>					
<b>8. Division Communications</b>		<b>Phone</b>	<b>Radio Ch</b>		
Operations Manager ██████████		██████████			
<b>11. Prepared By:</b> ██████████		<b>Date/Time</b> 12/2/19 1700hrs			



<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 12&13/2/2019 Time 1900 – 0700		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> <b>Yankee</b>		<b>4. Description</b> Bennets Road to CHH saw mill at Eves Valley			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>		<b>Radio Ch</b>	
FENZ Urban Exec Officer					
<b>6. Resources Assigned this Period</b>					
<b>Sector</b>		<b>Supervisor</b>		<b>Crews</b>	
				Last Date on Fire	
Mt Lyford 4wd Appliance					
Excavator					
Dozer					
Feller buncher					
Thermal image crew 2px					
<b>7. Division Assignment/Special Instructions</b>					
Patrol and protect structures. Keep mobile resources for immediate response. Hotspotting as per map. Concentrate on clearing hotspots on Eder rd as per hotspot map (2x Crews) Blackout to 10m perimeter from Xray/Yankee boundary heading south towards Yankee/Zulu2 boundary					
Yankee 1 – South edge of mill to div break at Zulu Yankee 2 – Xray div break to south edge of the mill					
<b>8. Division Communications</b>				<b>Phone</b>	
Operations Manager [REDACTED]				[REDACTED]	
				<b>Radio Ch</b>	
<b>12. Prepared By:</b> [REDACTED]				<b>Date/Time</b> 12/2/19 1700hrs	

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 12&13/2/2019 Time 1900 – 0700		<b>DIVISION ASSIGNMENT</b> <small>RF204a</small>	
<b>3. Division</b> <b>Zulu</b>		<b>4. Description</b> Point of ignition to CHH saw mill			
<b>5. Division Commander</b>	<i>Affiliation</i>	<i>Phone</i>	<i>Radio Ch</i>		
██████████		██████████	Last Day 16/2/19		
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
Mitchell Silviculture 6px		██████████ ██████████		Last Date on Fire <b>16/2/19</b>	
██████ Bears smoke Chaser					
Marahau Smoke chaser					
Rural Appliance 5075					
Thermal image crew 2px					
<b>7. Division Assignment/Special Instructions</b>					
Patrol/protect structures. Keep mobile resources for immediate response. hotspotting as per map. Zulu1 Blackout to 30m from Alpha1/Zulu1 boundary heading east  Zulu2 Blackout to 30m from Yankee1/Zulu2 boundary heading south  Zulu 1 – Alpha div break to Barton Lane Zulu 2 – Barton lane to Yankee div break.					
<b>8. Division Communications</b>				<i>Phone</i>	<i>Radio Ch</i>
Operations Manager ██████████				██████████	
<b>13. Prepared By:</b> ██████████				<b>Date/Time</b> 12/2/19 1700hrs	

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 12&13/2/2019 Time 1900 – 0700		<b>DIVISION ASSIGNMENT</b> <small>RF204a</small>	
<b>3. Division</b> <b>Atawhai</b>		<b>4. Description</b>			
<b>5. Division Commander</b>	<i>Affiliation</i>	<i>Phone</i>		<i>Radio Ch</i>	
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
				<small>Last Date on Fire</small>	
Night					
None					
<b>7. Division Assignment/Special Instructions</b> Continue mopping up identified hotspots as per hotspot map.					
<b>8. Division Communications</b>				<i>Phone</i>	
Operations Manager: [REDACTED]				<i>Radio Ch</i>	
<b>14. Prepared By:</b> [REDACTED]				<b>Date/Time</b> 12/2/19 1700hrs	

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 12&13/2/2019 Time 1900 – 0700		<b>DIVISION ASSIGNMENT</b> RF204a	
<b>3. Division</b> <b>Structure protection</b>		<b>4. Description</b>			
<b>5. Division Commander</b>	<b>Affiliation</b>	<b>Phone</b>		<b>Radio Ch</b>	
<b>6. Resources Assigned this Period</b>					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
				Last Date on Fire	
Executive Officer		██████████			
Nelson 212 4px					
Nelson 213 4px					
Newlands 291 4px					
Wainuiomata 441 4px					
<b>7. Division Assignment/Special Instructions</b>					
<ul style="list-style-type: none"> <li>• The Structure protection appliances will be manned by 2x 12hrs shift crews which FENZ is rotating and managing fatigue levels for</li> <li>• The above structure protection crews will be assigned to Divisions by the Operations Manager on a shift basis.</li> <li>• They will report to the Division Commander.</li> <li>• They are “on-call” for structure protection incidents at or in the vicinity of the Pigeon Valley Fire.</li> </ul>					
<b>8. Division Communications</b>					
Operations Manager		██████████		<i>Phone</i>	
				██████████	
Air Division Commander		██████████		<i>Radio Ch</i>	
				Fire 1/Cellphone	
				Fire 4/Cellphone	
<b>15. Prepared By:</b> ██████████				<b>Date/Time</b> 12/2/19 1430hrs	

<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 12&13/2/2019 Time 1900 – 0700			<b>AIR OPERATIONS PLAN</b> RF208	
<b>3. Personnel and Communications</b>						
<b>Position</b>	<b>Name</b>	<b>Affiliation</b>	<b>Phone</b>	<b>Radio Chan</b>		
Air Div Commander	[REDACTED]					
Air Division – Drone	[REDACTED]					
	[REDACTED]					
	[REDACTED]					
	[REDACTED]					
<b>4. Air Resource Assignments</b>						
<b>Pilot Name/ Company</b>	<b>Aircraft Type</b>	<b>Reg or Call sign</b>	<b>Assign- ment</b>	<b>Tactical Freq/Chan</b>	<b>Name</b>	<b>Telephone Numbers</b>
Interpine 2px	RPAS / UAV	PINES1		Fire 4	[REDACTED]	
Interpine 2px	RPAS / UAV	PINES2		Fire 4	[REDACTED]	
USAR 3px	RPAS / UAV	Romeo1		Fire 4	[REDACTED]	
USAR 3px	RPAS / UAV	Romeo2		Fire 4	[REDACTED]	
<b>5. Location of Filling Points/Service Areas</b>						
<b>Name</b>			<b>Grid Reference</b>			
Heli base			-41.31777, 137.10987			
Fixed wing			41 22 39.9 S 173 05 04.6 E			
<b>6. Safety Notes / Hazards / Radio Coverage Limitations</b>						
<b>7. Air Operations Special Equip or Service</b>						
Drone operations						
<ol style="list-style-type: none"> <li>1. Full perimeter survey of containment to 30m Following priority order Eves Valley Mill, Xray, Yankee, Zulu, Alpha, Rabbit Island</li> <li>2. Atawhai – Full hotspot survey and aerial map before sunset</li> <li>3. Observation platform for Zulu overnight</li> </ol>						
<b>8. Prepared By:</b> [REDACTED]				<b>Date/Time:</b> 12/2/19 1700hrs		

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<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 12&13/2/2019 Time 1900 – 0700		<b>COMMUNICATIONS PLAN</b> RF205	
<b>3. Radio Channels</b>					
<b>Assigned To</b>	<b>Function</b>	<b>Channel</b>	<b>Frequency</b>	<b>System</b>	
Command		Waimea 1	152.55000 RX 154.33125 TX		
Division Alpha	Operational	Fire 1	143.82500		
Division Zulu	Operational	Fire 2	143.78750		
Division Yankie	Operational	Fire 3	140.92500		
Division Xray	Operational	Fire 1	143.82500		
Division Bravo	Operational	Fire 2	143.78750		
Air Ops -Heli	Operational	Fire 4	140.61250		
Air Ops – Fixed Wing	Operational	Fire 10	140.98750		
Emergency		Waimea 1	152.55000 RX 154.33125 TX		
Resources		Waimea 1	152.55000 RX 154.33125 TX		
FireCom		FireCom			
2 Hourly - Sitrep		OPSR2	Use mobile if difficult coms to FCP		
<b>4. Telephone</b>					
<b>Assigned To</b>	<b>Landline</b>	<b>Cell phone</b>	<b>Fax</b>	<b>Comments</b>	
Emergency		111			
Regional Command Centre (RCC)					
<b>6. Other (e.g. email, Satphone, etc)</b>					
Resources	<a href="mailto:resources@FENZNelsonIMT.com">resources@FENZNelsonIMT.com</a>				
Safety	<a href="mailto:safety@FENZNelsonIMT.com">safety@FENZNelsonIMT.com</a>				
Logistics	<a href="mailto:logistics@FENZNelsonIMT.com">logistics@FENZNelsonIMT.com</a>				
PIM	<a href="mailto:pim@FENZNelsonIMT.com">pim@FENZNelsonIMT.com</a>				
Planning	<a href="mailto:planning@FENZNelsonIMT.com">planning@FENZNelsonIMT.com</a>				
Forward Control Point ( FCP)	<a href="mailto:icu.nelson@fireemergency.nz">icu.nelson@fireemergency.nz</a>		[REDACTED]		
Situation / GIS / Intel	<a href="mailto:situation@FENZNelsonIMT.com">situation@FENZNelsonIMT.com</a>				
Operations	<a href="mailto:operations@FENZNelsonIMT.com">operations@FENZNelsonIMT.com</a>				
Photos and imagery	Join Facebook site; Pigeon Valley Fire - INTERNAL COMMS		<a href="https://www.facebook.com/groups/1924082991035550/">https://www.facebook.com/groups/1924082991035550/</a>		
<b>6. Prepared by:</b> [REDACTED]				<b>Date/Time</b> 11/2/19 1900hrs	

<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 12&13/2/2019 Time 1900 – 0700	<b>SAFETY PLAN</b> RF209
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**3. General Safety Points**

Ensure regular rest periods and hydrate often with water and electrolytes

Everyone is to be signed in and out of the fire ground through the Incident Control Point for both safety check and payment records (Complete DTR's).

Maintain regular situation reports especially kestrel observations (containing all relevant information) via line supervisors.

**Drivers must obey all speed limits – no exception on forestry tracks.**  
**Remember vehicles must be able to stop in half the visible distance**

<b>LACES</b>	<b>Fire Orders</b>	<b>Watchouts</b>
<b>L</b> - Lookout(s) <b>A</b> – Awareness – Anchor Point(s) <b>C</b> – Communication(s) <b>E</b> – Escape Route(s) <b>S</b> – Safety Zone(s)	<ol style="list-style-type: none"> <li>1. conditions and forecasts</li> <li>2. Know what your fire is doing at all times.</li> <li>3. Base all actions on current and expected fire behaviour of the fire.</li> <li>4. Identify escape routes and safety zones and make them known.</li> <li>5. <b>Post</b> lookouts when there is possible danger.</li> <li>6. <b>Stay</b> alert. Keep calm, Think clearly, act decisively.</li> <li>7. Maintain prompt communication with your crew/s, your supervisor and adjoining crews.</li> <li>8. Give clear instructions and ensure they are understood.</li> <li>9. Maintain control of your crew/s at all times.</li> <li>10. Fight fire aggressively having provided for safety first.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fire size is unknown (no size up).</li> <li>2. Unfamiliar territory</li> <li>3. Safety zones and escape routes not identified.</li> <li>4. Unfamiliar with weather and local factors influencing fire behaviour.</li> <li>5. No communications link with crew members or supervisor.</li> <li>6. Instructions and assignments not clear.</li> <li>7. Weather is getting hotter, drier and relative humidity dropping</li> <li>8. Wind increases and/or changes direction.</li> <li>9. Getting frequent spot fires across the line</li> <li>10. Working uphill or down wind of a fire</li> <li>11. Working on a steep slope</li> <li>12. Working in rugged terrain</li> <li>13. Can't see main fire</li> <li>14. In unburnt vegetation</li> <li>15. Walking through hot ashes</li> <li>16. Working alone</li> <li>17. Getting tired</li> <li>18. Working near power lines</li> <li>19. Working near machinery</li> <li>20. Working with aircraft</li> <li>21. Working around trees or spars</li> </ol>

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#### 4. Specific Safety Points

- All access points into fire are controlled. Only those authorized to enter and they must receive a briefing and be logged including time and point of access
- Public access managed by cordons
- Weather fire behaviour monitored for changes and communicated to crews. Use kestrels to gather weather data. Risk identified to crews.
- All crews to have adequate food, water, PPE to manage fatigue and hydration.
- Crew Leaders and Supervisors to monitor crews for fatigue. Work rest periods enforced. Seek shade during rest period.
- Ensure nine-hour rest periods before returning to fire ground.
- Crews to have identified emergency escape routes and emergency plan in the event of harm. Meeting at pre-identified evacuation point once evacuated.
- All workers to ensure they are competent for the tasks and risks given.
- Air and ground crews to be isolated from risk areas during operations.
- Potential methane flares (Division Yankee) from Eves Valley Landfill. Avoid if possible.
- Avoid skid sites where stability of surface cannot be assured.
- Particular care in smoke, work in smoke and traveling in smoke.
- Ensure operational separation from Air-ops at forward command post
- Follow carpark signage at Forward command post
- Report all incidents and near misses to safety officer.
- Be sun smart, use hats and cover completely.
- Drive carefully in the vicinity of the Brightwater community
- Driver are to obey speed limits at all times
- Ensure under garments are flame resistant
- Forestry tracks & road speed 20 km/hr. Use beacons/ lights etc. Not response speed!
- Seat belts must be worn at all times
- Big trees with root plates compromised
- Ensure safe distance from felling machines (2 tree lengths ~ 80m minimum)
- Dangerous tree assessors – Ensure all crew members are competent and equipped for task (including PPE).
- Respiratory protection- P2 Mask to be worn when working in dusty and smoky environments
- Terrain – keep off steep faces, stay above felled trees
- Plastic bags are available at FCP to transport dirty PPE
- Be aware with winds increasing and gusting – trees may have their roots compromised and blow over. Remember to stay 2 tree lengths away from suspect trees. Communicate suspect trees to dangerous tree assessment crews.

5. Prepared By: [REDACTED]

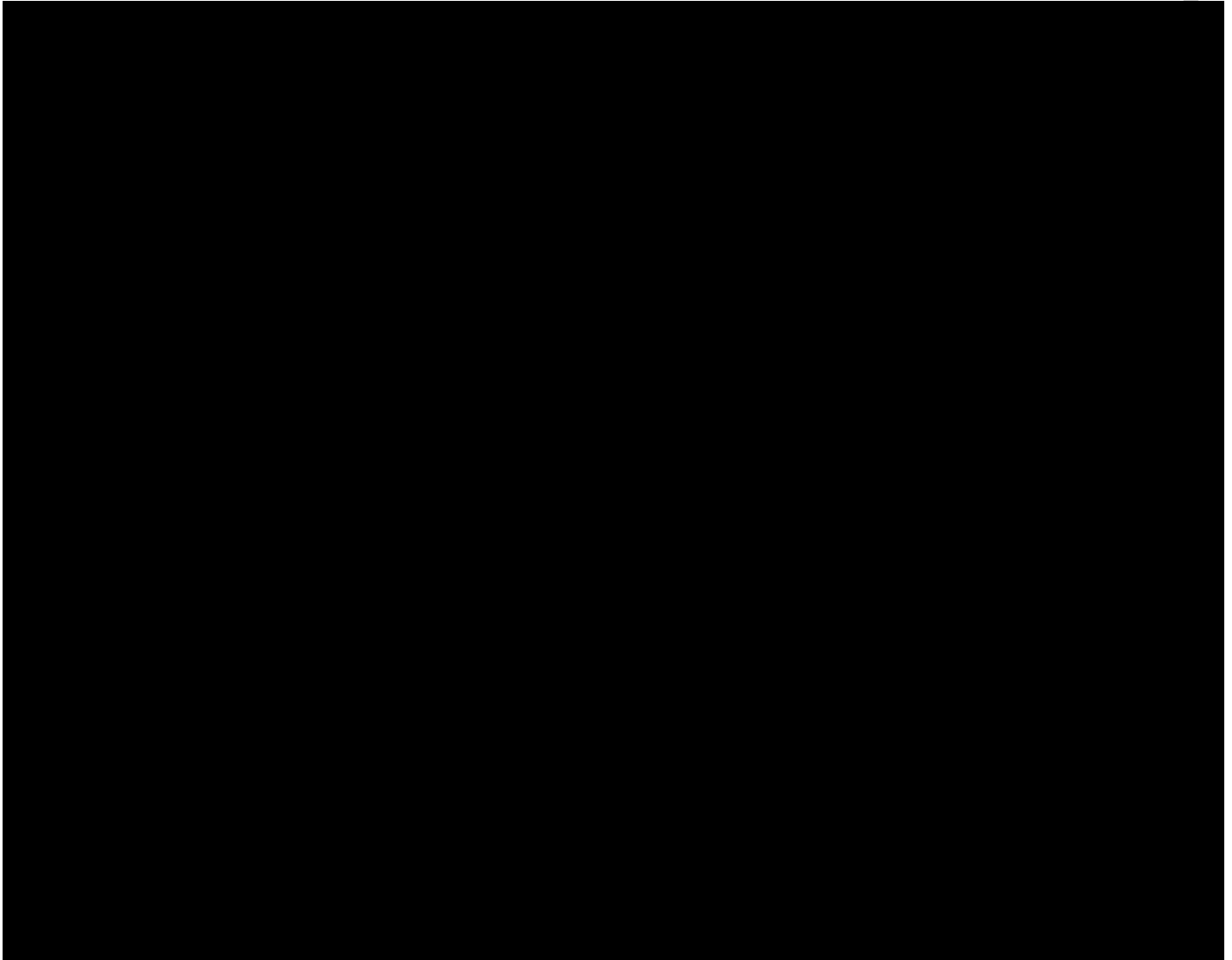
Date/Time 12/2/19 1200hrs



<b>1. Incident Name</b> Pigeon Valley		<b>2. Operational Period</b> Date 11&12/2/2019 Time 1900 – 0700		<b>MEDICAL PLAN</b> RF206					
<b>3. First Aid Station</b> <i>Name</i>		<i>Location</i>		<i>Phone/Radio Channel</i>		<i>Paramedics available at Station</i>			
Each Crew must have available one First aid Level 1 Certified		Each crew							
Nelson 91 Ambulance		Forward command post		Waimea 1		1 Paramedic and 1 EMT			
<b>4. Transportation</b> <i>Ambulance Service</i>		<i>Address</i>		<i>Phone/Radio Channel</i>		<i>Paramedics available with Ambulance</i>			
Ambulance St Johns		Closest unit		111		Yes			
<b>5. Hospitals</b> <i>Hospital Name</i>		<i>Address</i>		<i>Phone</i>		<i>Travel Time</i> <i>Road</i>	<i>Burn Unit</i>	<i>Heli Pad</i>	
Nelson Public Emergency		Waimea Rd.		111		27m	4min	y	y
Hutt Hospital (Burn Unit)				111		n/a	40min	Y	y
<b>6. Special Emergency Procedures</b>  St John will transport patients to whichever health facility is appropriate									
<b>7. Prepared By:</b> [REDACTED] Shift - Manager Nelson				<b>Date/Time</b> 11/2/19 1900hrs					
<b>8. Reviewed by Safety Advisor:</b> [REDACTED]				<b>Date/Time</b> 12/19 1200hrs					

<b>1. Incident Name</b> Pigeon Valley	<b>2. Operational Period</b> Date 13/2/2019 Time 0700 - 1900	<b>MAPS</b> RF
<b>3.</b> Download Avenza Maps app on iOS and Android, Scan the Following Codes to Access Digital Maps you can navigate with. These codes generally do no change, therefore to get tomorrow's map you can scan the old map code. Present a smartphone camera to see these codes or scan using QR code reader app.		

## QR CODES FOR MAP DOWNLOAD



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Act

**1. Incident Name**

Pigeon Valley Fire, Nelson

Date 12&amp;13/2/2019

Time 1900 – 0700

# Public Information Management Plan

## Overview of PIM response

The NIMT PIM team is working to support the Nelson Tasman Civil Defence PIM team. It is essential that the information coming in from the fire ground (with regards to FENZ operations) is collated by the NIMT Situation Unit and shared to the Civil Defence IMT - this is done through the PIM teams working collaboratively and assists in timely, accurate and relevant information to all stakeholders involved.

The overall PIM team is increasing personnel numbers.

## NIMT PIM team – for Tuesday 12<sup>th</sup> February

**PIM FENZ Manager** – [REDACTED]  
**Media Officer** – [REDACTED]  
**PIM Support** – [REDACTED]  
**Social Media Manager, Community Liaison, Evac/Alerts** – Civil Defence

The **PIM Team roster** is available from NIMT Logistics Manager.

## PIM meetings:

Ops Briefing	0700hrs
Media Briefing #1	0830hrs
Planning Meeting #1	0900hrs
Tactics Meeting	1030hrs
Media Briefing #2	1530hrs
Planning Meeting #2	1700hrs

## Key Messages:

- **Attn Cordons:** Media should only be allowed access to cordoned areas and restricted sites **if approved** and accompanied by a member of the PIM Team. Please be diligent with allowing people through.
- Evacuations are still in place, for more information, go to [www.nelsontasmancivildefence.co.nz](http://www.nelsontasmancivildefence.co.nz)
- Evacuated residents should check in at the Civil Defence Welfare Centre located at t/new Life Church, Richmond, or call the Civil Defence Welfare helpline - 03 543 8400
- Media should contact the Media Officer for specific event information and media stand-up information.
- Fire safety messages are: Stay away from the area and follow authorities' instructions. Also help protect your property by creating a 'defensible zone' – Use compost, mulch and remove any section or yard waste materials. Total fire ban and machinery ban still in place.
- Donated items should be sealed, long-life foods and drink, drop off at Nelson Tasman District Council Office.

## FENZ Stakeholders and Audience Groups

Organisation	Detail	Name	Contact Info
FENZ Org (forward system to ELT, NCC, OCE and Board)	Requires regular updates – committed to 3x updates daily at 0830hrs, 1400hrs, 1900hrs. Additionally a phone call every hour	RCC Christchurch	RCC R4 & R2, NCC, [REDACTED] [REDACTED] [REDACTED], Nelson Tasman CD Planning & Intel, NIMT Situation Unit, Comms Team
Evacuated Residents	Community Meeting – one was held at 11am today with Iwi	Various	Comms through social media, Civil Defence website, welfare team and media.
Interested Public	Local community (not evacuated) and wider	Various	Social media posts, Civil Defence website, FENZ website, media outlets
Cordons	Managed by Police, kept updated via PIM team		Police Liaison in IMT
IMT and Support Staff	Information to help their roles	*See structure charts	Briefings, meetings, conversations between the teams, Sit Reps
Media Outlets	Require full-time management and contact	*See media list	

Direct message distribution	Details of the specific sites or types
Websites	Nelson Tasman Civil Defence - <a href="http://www.nelontasmancivildefence.co.nz/">http://www.nelontasmancivildefence.co.nz/</a> Fire and Emergency NZ <a href="http://www.fireandemergency.nz">www.fireandemergency.nz</a>
Social media	<b>Main channel is:</b> Nelson Tasman Civil Defence facebook page Fire and Emergency NZ facebook page Tasman-Malborough Fire Area facebook page
Helpline	Welfare Helpline – 03 543 8400
Information points	Cordons (located as per map)
Community contacts/meetings	Community Meeting Monday 11 <sup>th</sup> February – details TBC.
Media Outlets	Specific stations or publications
Radio	*See media list
TV	
Newspapers	
Media	Schedule
Media briefing/conferences	Media Stand Up at 0830hrs. Media Stand Up at 1530hrs. 2 hourly Media Releases

Media site visits	As required
Interviews	Regular interviews with FENZ personnel
<b>Message monitoring</b>	
Messaging is being monitored by Civil Defence PIM Team and dealt with / passed on accordingly. FENZ PIM team are supporting media management and FENZ / Operational information requiring to be gathered and shared.	

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