

1. Incident Name Pigeon Valley		2. Operational Period Date 8/2/2019 Time 0700 – 1900		DIVISION ASSIGNMENT RF204a	
3. Division Xray		4. Description Division from Cut hill/Eder Rd to CHH saw mill			
5. Division Commander	Affiliation	Phone		Radio Ch	
██████████		██████████		Fire 5	
6. Resources Assigned this Period					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
Appleby Tanker					
Smoke Chaser Wainui 3px					
NZDF RFA x7px					
DOC North Canterbury 5px					
AFM – ██████ 4px					
7. Division Assignment/Special Instructions					
<p>Ground Crews: 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>Heavy Equipment –Cut and strengthen a line along Cuthill Rd from Eder Rd to where it meets the paddocks past Johnsons Rd</p> <p>Helicopters: Support ground crew as required and divisional commanders to call air attack (██████) with requirements</p>					
8. Division Communications				Phone	
Operations Manager ██████████		██████████		Fire 1/Cellphone	
Air Division Commander ██████████		██████████		Fire 4/Cellphone	
10. Prepared By: ██████████				Date/Time 1900 7/2/19	

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1. Incident Name Pigeon Valley		2. Operational Period Date 8/2/2019 Time 0700 – 1900		DIVISION ASSIGNMENT RF204a	
3. Division Zulu		4. Description Division from Cut hill/Eder Rd to CHH saw mill			
5. Division Commander	Affiliation	Phone		Radio Ch	
██████████		██████████		██████	
6. Resources Assigned this Period					
Sector		Supervisor		Crews	
Radio Ch					
4x Excavator 20T		TLC			
D65 Dozer		██████████			
Watertanker					
Tree + Forestry + 4px					
Otago 10px					
7. Division Assignment/Special Instructions					
<p>Ground Crews: 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>Heavy Equipment –Dozer break from the existing retardant line, follow busline across McCalls Road to sector boundary at Bennets Rd</p> <p>Helicopters: Support ground crew as required and divisional commanders to call air attack (██████████) with requirements</p>					
8. Division Communications				Phone	
				Radio Ch	
Operations Manager		██████████		██████████	
Air Division Commander		██████████		██████████	
				Fire 1/Cellphone	
				Fire 4/Cellphone	
11. Prepared By: ██████████				Date/Time 1900 7/2/19	

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1. Incident Name Pigeon Valley		2. Operational Period Date 8/2/2019 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	
██████████	Wakefield VFB	██████████		Fire 3	
6. Resources Assigned this Period					
<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					
7. Division Assignment/Special Instructions					
Ground Crews:					
<ul style="list-style-type: none"> • Urban crews for protection of Eves Valley Mill or other properties as required. • 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. 					
Heavy Equipment – 2x Excavators working to assist with firebreaks and clearing around the Yankee Zulu intersection.					
Helicopters: Support ground crew as required and divisional commanders to call air attack (██████████) with requirements					
8. Division Communications				Phone	
Operations Manager		██████████		Fire 1/Cellphone	
Air Division Commander		██████████		Fire 4/Cellphone	
12. Prepared By: ██████████				Date/Time 1900 7/2/19	

1. Incident Name Pigeon Valley		2. Operational Period Date 8/2/2019 Time 0700 – 1900		DIVISION ASSIGNMENT RF204a	
3. Division Property Assessments		4. Description Functional division across Pigeon Valley Incident			
5. Division Commander	Affiliation	Phone		Radio Ch	
6. Resources Assigned this Period					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	<i>Radio Ch</i>
██████████		FENZ Liaison			
7. Division Assignment/Special Instructions					
<ol style="list-style-type: none"> 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. The assessments will include staff from Civil defence, FENZ and specialist contractors as required. Liaison communications will be maintained with division commanders at all times when on the incident ground Timeline for the assessments to be confirmed 					
8. Division Communications				Phone	Radio Ch
Operations Manager		██████████	██████████	██████████	Fire 1/Cellphone
Air Division Commander		██████████	██████████	██████████	Fire 4/Cellphone
13. Prepared By: ██████████				Date/Time 1900 7/2/19	

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

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1. Incident Name Pigeon Valley	2. Operational Period Date 8/2/2019 Time 0700 - 1900	AIR OPERATIONS PLAN RF208
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3. Personnel and Communications				
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				

4. Air Resource Assignments					
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]

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]

8. Prepared By:

[REDACTED]

Date/Time: 1900 7/2/19

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1. Incident Name Pigeon Valley		2. Operational Period Date 8/2/2019 Time 0700-1900		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 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	
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)					
Resources	resources@FENZNelsonIMT.com				
Safety	safety@FENZNelsonIMT.com				
Logistics	logistics@FENZNelsonIMT.com				
PIM	pim@FENZNelsonIMT.com				
Planning	planning@FENZNelsonIMT.com				
Forward Control Point (FCP)	icu.nelson@fireemergency.nz [REDACTED]				
Situation / GIS / Intel	situation@FENZNelsonIMT.com				

Operations	operations@FENZNelsonIMT.com	
Photos and imagery	Join Facebook site; Pigeon Valley Fire - INTERNAL COMMS	https://www.facebook.com/groups/1924082991035550/
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	SAFETY PLAN RF209
3. General Safety Points <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;">LACES</p> <p>L - Lookout(s)</p> <p>A – Awareness</p> <p>– Anchor Point(s)</p> <p>C – Communication(s)</p> <p>E – Escape Route(s)</p> <p>S – Safety Zone(s)</p>	<p style="text-align: center;">Fire Orders</p> <ol style="list-style-type: none"> 1. conditions and forecasts 2. Know what your fire is doing at all times. 3. Base all actions on current and expected fire behaviour of the fire. 4. Identify escape routes and safety zones and make them known. 5. Post lookouts when there is possible danger. 6. Stay alert. Keep calm, Think clearly, act decisively. 7. Maintain prompt communication with your crew/s, your supervisor and adjoining crews. 8. Give clear instructions and ensure they are understood. 9. Maintain control of your crew/s at all times. 10. Fight fire aggressively having provided for safety first. 	<p style="text-align: center;">Watchouts</p> <ol style="list-style-type: none"> 1. Fire size is unknown (no size up). 2. Unfamiliar territory 3. Safety zones and escape routes not identified. 4. Unfamiliar with weather and local factors influencing fire behaviour. 5. No communications link with crew members or supervisor. 6. Instructions and assignments not clear. 7. Weather is getting hotter, drier and relative humidity dropping 8. Wind increases and/or changes direction. 9. Getting frequent spot fires across the line 10. Working uphill or down wind of a fire 11. Working on a steep slope 12. Working in rugged terrain 13. Can't see main fire 14. In unburnt vegetation 15. Walking through hot ashes 16. Working alone 17. Getting tired 18. Working near power lines 19. Working near machinery 20. Working with aircraft 21. Working around trees or spars
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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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1. Incident Name Pigeon Valley		2. Operational Period Date 8/2/2019 Time 0700-1900		MEDICAL PLAN RF206					
3. First Aid Station <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			
4. Transportation <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			
5. Hospitals <i>Hospital Name</i>		<i>Address</i>		<i>Phone</i>		<i>Road</i>	<u><i>Travel Time</i></u> <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
6. Special Emergency Procedures									
St John will transport patients to whichever health facility is appropriate									
7. Prepared By: [REDACTED] Shift - Manager Nelson					Date/Time 1900 7/2/19				
8. Reviewed by Safety Advisor: [REDACTED]					Date/Time 1900 7/2/19				

FIRE BEHAVIOUR FORECAST

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

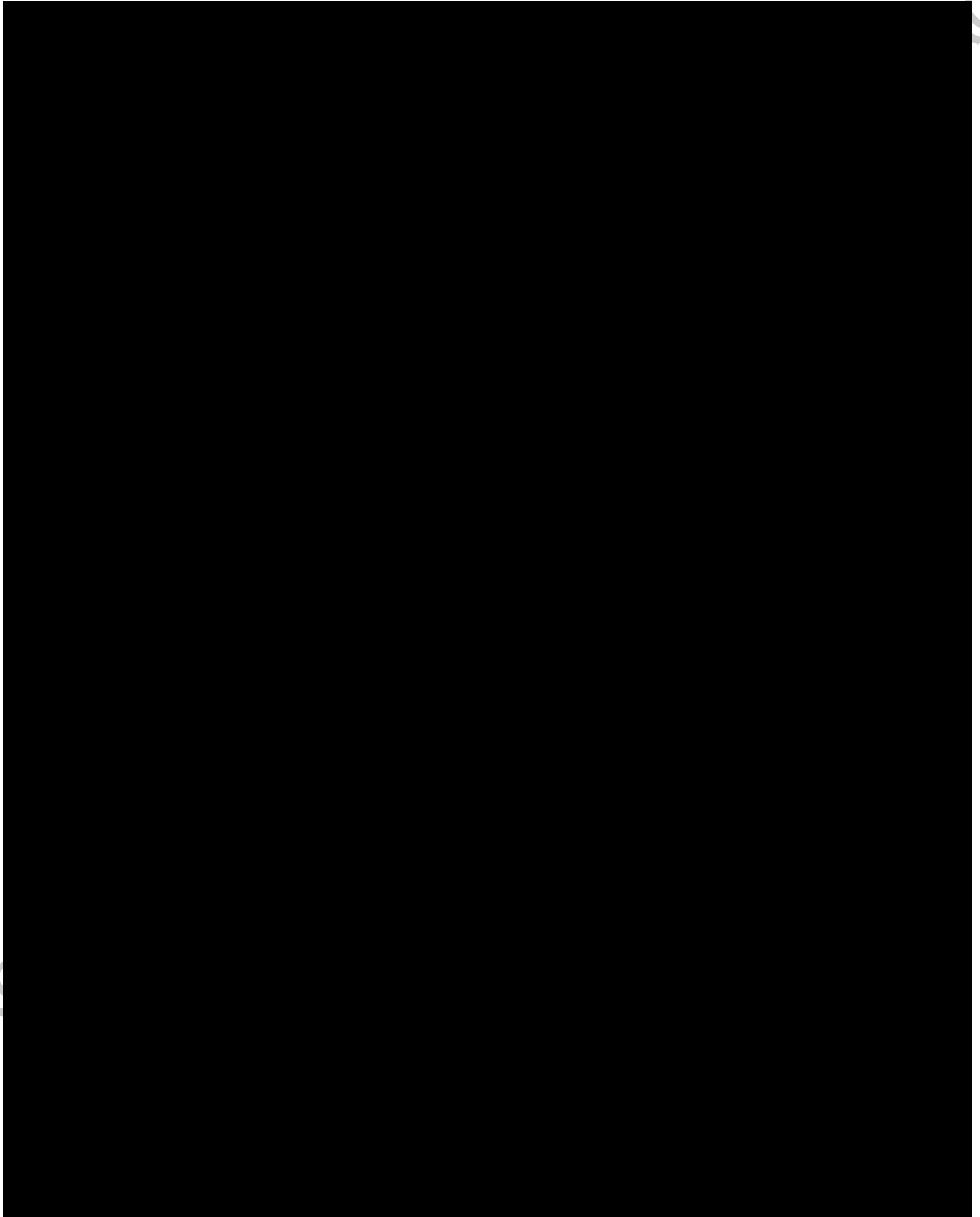
Expected fire behaviour – slope 0°	Forecast worst case – 28°C 45%RH slope 20° 1400-1800
<i>Fuel type: Mature Pine – 5m pruned</i>	<i>Fuel type: Mature Pine – 5m pruned</i>
Expect HF rate of spread of 50 m/hr HF Intensity 800 kw/m Flame lengths 1.5-2	Expect HF rate of spread of 200 m/hr HF Intensity 2100 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
Safety Considerations:	
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.	

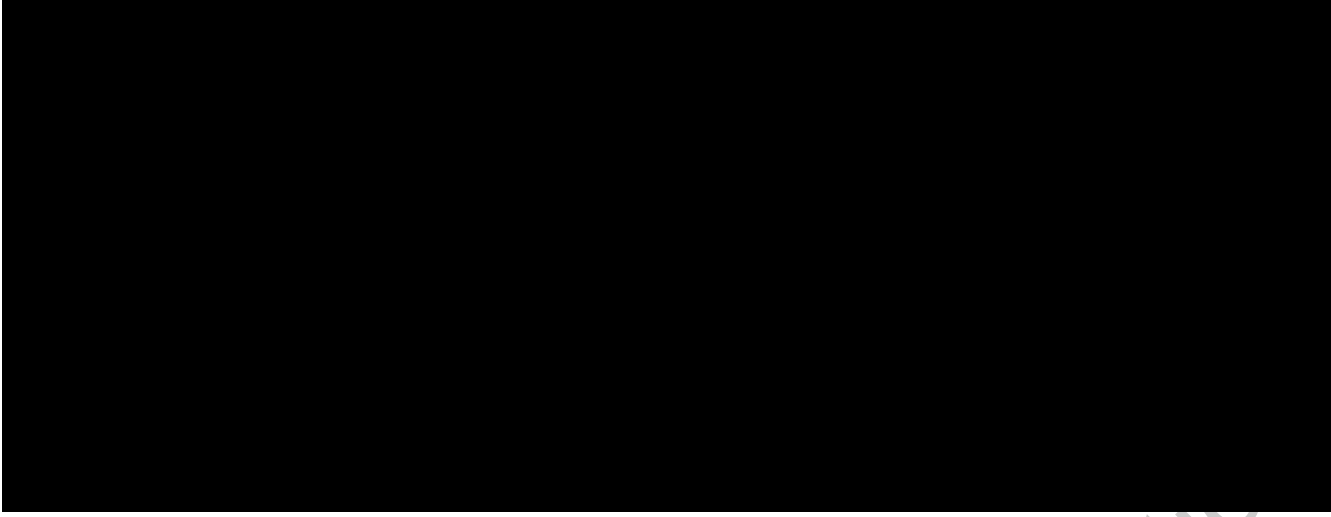
If prediction time is before 1200 NZST, use yesterday's noon daily FWI values; if after 1200 NZST, use today's FWI values.

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

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

QR CODES FOR MAP DOWNLOAD





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1. Incident Name Pigeon Valley Fire, Nelson	2. Operational Period 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. 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.

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 7th 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 – 1st Planning Meeting
 - 13:00hrs – Tactics Meeting (sit-in only)
 - 17:00hrs – 2nd 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 Media@fireandemergency.nz

	1500hrs and 1900hrs		
Evacuated Residents	Community Meeting – first one held at 0900 on Thursday 7 th Feb. Next one potentially Sat 9 th 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 - http://www.nelsontasmancivildefence.co.nz/ Fire and Emergency NZ www.fireandemergency.nz
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 th Feb at 0900hrs at Appleby Fire Station.
Media message distribution	Specific stations or publications
Radio	*See media list The Project (TV) have requested for interviews with firefighters for tomorrow night's show (8 th 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)
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: 7/2/19 1900hrs

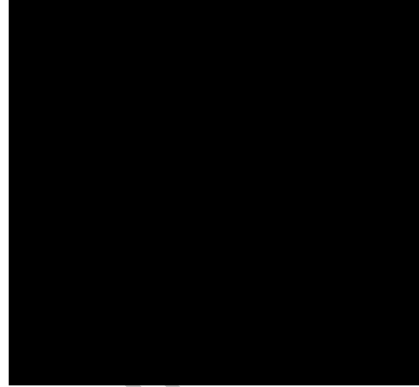
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Incident Name	Operational Period	IAP COVER SHEET RF199
Pigeon Valley	Date 8&9/2/2019 Time 1900 - 1900	

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



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



1. Incident Name Pigeon Valley	2. Operational Period Date 8&9/2/2019 Time 1900 - 0700	SITUATION REPORT RF201
3. Location Pigeon Rd, Eves Valley, Tasman	4. Vegetation Forest/Scrub/Grass/Slash/ Other:	
6. Assessment <p>A large scrub/ forest fire is currently burning estimated to be over 2100ha as at 0700hrs on 8th 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 time the fire 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 3 hour notification for Pigeon Valley and three hour notification for Wakefield. We were unable to identify trigger points for Wakefield 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"> • Eves Valley, • Golden Hills Rd, • Redwood Valley Rd • Tea Pot Valley • Barton Lane <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 are secure 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 8th Feb 2019

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

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	██████████			

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]	
8. Prepared by: [REDACTED]		Date/Time: 1900 7/2/19	

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1. Incident Name Pigeon Valley		2. Operational Period Date 8&9/2/2019 Time 1900 - 0700		DIVISION ASSIGNMENT RF204a	
3. Division Alpha		4. Description			
5. Division Commander	<i>Affiliation</i>	<i>Phone</i>		<i>Radio Ch</i>	
██████████		██████████			
6. Resources Assigned this Period					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
<i>Radio Ch</i>					
2 Dozers					
3 Excavators					
3 4px Crew					
7. Division Assignment/Special Instructions					
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"> • A1 Patrol to ford boundary and evaluate up ridge to A2 and liaise. • A2 – x2 patrol either way 					
Alpha 1 - Div break to Ford on Sharps Rd					
Alpha 2 – From ford on Sharps rd to Cuthill Johnsons Rd intersection (updated Div break)					
8. Division Communications					
		<i>Phone</i>		<i>Radio Ch</i>	
Operations Manager		██████████		██████████	
9. Prepared By: ██████████				Date/Time	

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1. Incident Name Pigeon Valley		2. Operational Period Date 8&9/2/2019 Time 1900 - 0700		DIVISION ASSIGNMENT RF204a	
3. Division Xray		4. Description			
5. Division Commander	Affiliation	Phone		Radio Ch	
██████████					
6. Resources Assigned this Period					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	
<i>Radio Ch</i>					
3x 4WD Tankers					
2x Bulk tanker					
3x 4px Crew					
1x Dozer					
7. Division Assignment/Special Instructions					
<ul style="list-style-type: none"> • 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 • X2 Patrol • X3 Monitor <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>					
8. Division Communications				Phone	
Operations Manager ██████████				██████████	
10. Prepared By: ██████████				Date/Time	

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

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

1. Incident Name Pigeon Valley		2. Operational Period Date 8&9/2/2019 Time 1900 - 0700		DIVISION ASSIGNMENT <small>RF204a</small>	
3. Division Atawhai		4. Description			
5. Division Commander	<i>Affiliation</i>	<i>Phone</i>		<i>Radio Ch</i>	
██████████		██████████			
6. Resources Assigned this Period					
<i>Sector</i>		<i>Supervisor</i>		<i>Crews</i>	<i>Radio Ch</i>
7. Division Assignment/Special Instructions Crew and equipment resourcing to be confirmed based aerial and ground inspections.					
8. Division Communications				<i>Phone</i>	<i>Radio Ch</i>
Operations Manager		██████████	██████████		
13. Prepared By: ██████████					
				Date/Time	

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1. Incident Name Pigeon Valley		2. Operational Period Date 8&9/2/2019 Time 1900 - 0700			AIR OPERATIONS PLAN RF208	
3. Personnel and Communications						
Position	Name	Affiliation	Phone	Radio Chan		
Air Div Commander	██████████ (Emergency)		██████████			
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		██████████
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 Drone operations are tasked to monitor sector Zulu and Yankee for fire movement with infrared						
8. Prepared By: ██████████				Date/Time: 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			
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 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		
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)					
Resources	resources@FENZNelsonIMT.com				
Safety	safety@FENZNelsonIMT.com				
Logistics	logistics@FENZNelsonIMT.com				
PIM	pim@FENZNelsonIMT.com				
Planning	planning@FENZNelsonIMT.com				
Forward Control Point (FCP)	icu.nelson@fireemergency.nz			[REDACTED]	
Situation / GIS / Intel	situation@FENZNelsonIMT.com				
Operations	operations@FENZNelsonIMT.com				
Photos and imagery	Join Facebook site; Pigeon Valley Fire - INTERNAL COMMS			https://www.facebook.com/groups/1924082991035550/	
6. Prepared by: [REDACTED]				Date/Time 1900 7/2/19	

1. Incident Name Pigeon Valley	2. Operational Period Date 8&9/2/2019 Time 1900 - 0700	SAFETY PLAN 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
L - Lookout(s) A – Awareness – Anchor Point(s) C – Communication(s) E – Escape Route(s) S – Safety Zone(s)	<ol style="list-style-type: none"> 1. conditions and forecasts 2. Know what your fire is doing at all times. 3. Base all actions on current and expected fire behaviour of the fire. 4. Identify escape routes and safety zones and make them known. 5. Post lookouts when there is possible danger. 6. Stay alert. Keep calm, Think clearly, act decisively. 7. Maintain prompt communication with your crew/s, your supervisor and adjoining crews. 8. Give clear instructions and ensure they are understood. 9. Maintain control of your crew/s at all times. 10. Fight fire aggressively having provided for safety first. 	<ol style="list-style-type: none"> 1. Fire size is unknown (no size up). 2. Unfamiliar territory 3. Safety zones and escape routes not identified. 4. Unfamiliar with weather and local factors influencing fire behaviour. 5. No communications link with crew members or supervisor. 6. Instructions and assignments not clear. 7. Weather is getting hotter, drier and relative humidity dropping 8. Wind increases and/or changes direction. 9. Getting frequent spot fires across the line 10. Working uphill or down wind of a fire 11. Working on a steep slope 12. Working in rugged terrain 13. Can't see main fire 14. In unburnt vegetation 15. Walking through hot ashes 16. Working alone 17. Getting tired 18. Working near power lines 19. Working near machinery 20. Working with aircraft 21. Working around trees or spars

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 7/2/19
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1. Incident Name Pigeon Valley		2. Operational Period Date 8&9/2/2019 Time 1900 - 0700			MEDICAL PLAN RF206						
3. First Aid Station Name		Location		Phone/Radio Channel		Paramedics 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 Ambulance Service		Address		Phone/Radio Channel		Paramedics available with Ambulance					
Ambulance St Johns		Closest unit		111		Yes					
5. Hospitals		Address			Phone		Travel Time		Burn Unit	Heli Pad	
Hospital Name		Address			Phone		Road		Air	Unit	Pad
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											
7. Prepared By: [REDACTED] Shift - Manager Nelson				Date/Time 1900 7/2/19							
8. Reviewed by Safety Advisor: [REDACTED]				Date/Time 1900 7/2/19							

1. Incident Name Pigeon Valley	Date 8&9/2/2019 Time 1900 - 0700	Weather Forecast
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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

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

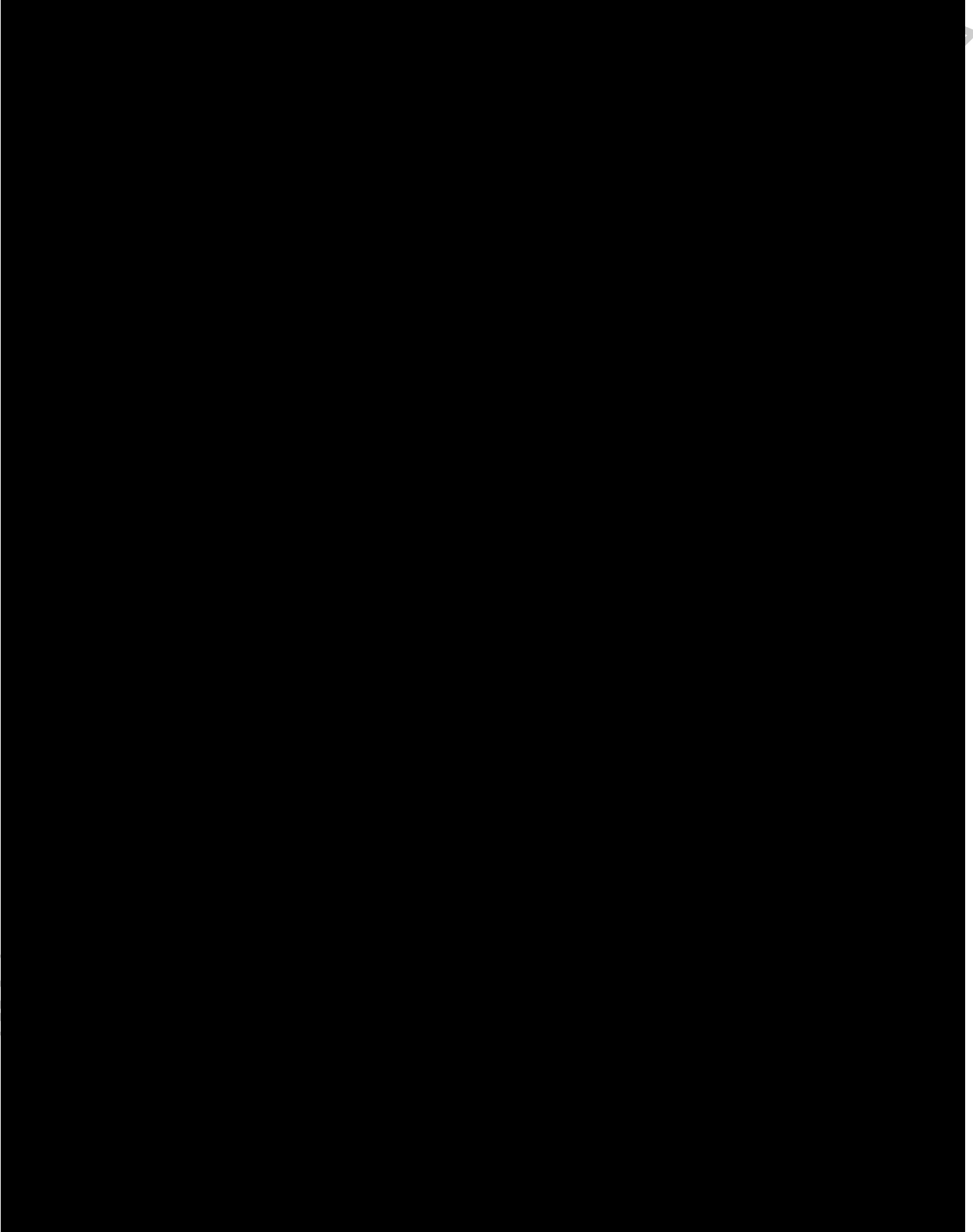
Expected fire behaviour – slope 0°	Forecast worst case – 28°C 45%RH slope 20° 1400-1800
<i>Fuel type: Mature Pine – 5m pruned</i>	<i>Fuel type: Mature Pine – 5m pruned</i>
Expect HF rate of spread of 50 m/hr HF Intensity 800 kw/m Flame lengths 1.5-2	Expect HF rate of spread of 200 m/hr HF Intensity 2100 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
Safety Considerations:	
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
Summary timeline: Based on the Dovedale weather station and NIWA forecasting, Friday is predicting to have NE winds stronger than Thursday.	

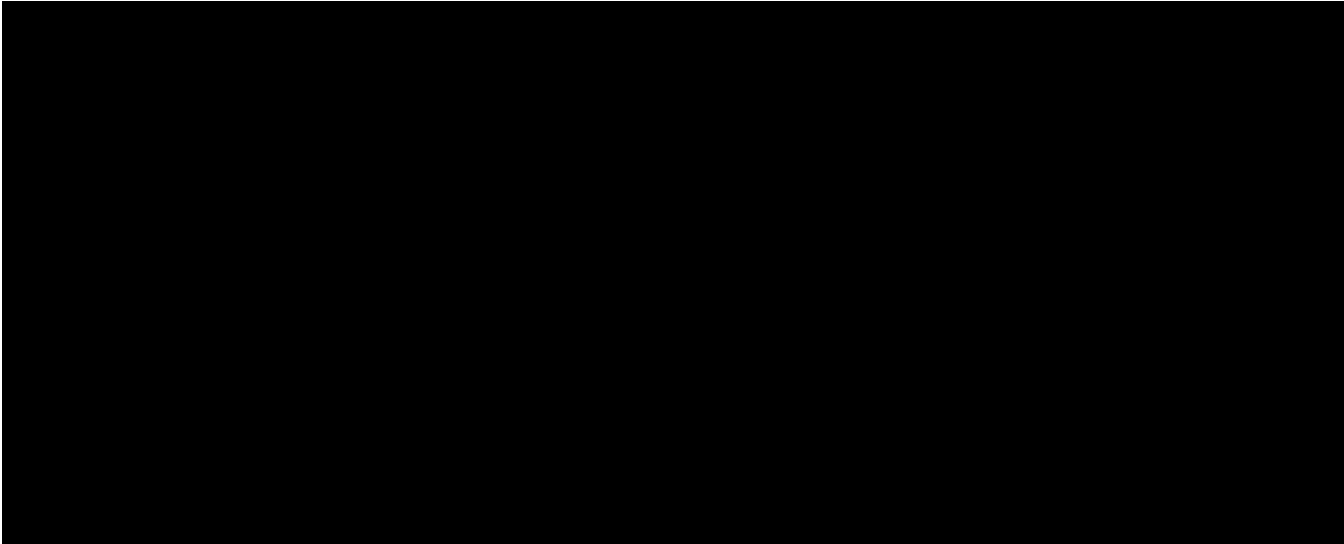
If prediction time is before 1200 NZST, use yesterday's noon daily FWI values; if after 1200 NZST, use today's FWI values.

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

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

QR CODES FOR MAP DOWNLOAD





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1. Incident Name Pigeon Valley Fire, Nelson	3. Operational Period 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 7th 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 – 1st Planning Meeting

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

17:00hrs – 2nd 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 [REDACTED] Media@fireandemergency.nz

	1500hrs and 1900hrs		
Evacuated Residents	Community Meeting – first one held at 0900 on Thursday 7 th Feb. Next one potentially Sat 9 th 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 - http://www.nelsontasmancivildefence.co.nz/ Fire and Emergency NZ www.fireandemergency.nz
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 th Feb at 0900hrs at Appleby Fire Station.
Media message distribution	Specific stations or publications
Radio	*See media list The Project (TV) have requested for interviews with firefighters for tomorrow night's show (8 th 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)
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: 7/2/19 1900hrs

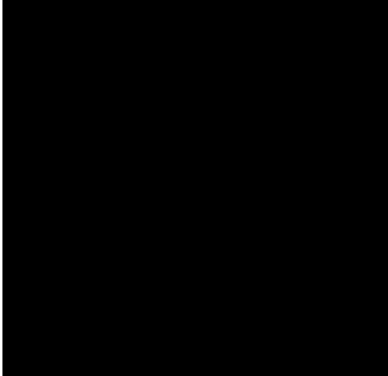
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Incident Name	Operational Period	IAP COVER SHEET RF199
Pigeon Valley	Date 9/2/2019 Time 0700 - 1900	

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



Approved by Incident Controller:	Signed	Date/Time
Name [REDACTED]	[REDACTED]	2000 8/2/19



1. Incident Name	2. Operational Period	SITUATION REPORT RF201
Pigeon Valley Pigeon Rd, Eves Valley, Tasman	Date 9/2/2019 Time 0700 - 1900	
<p>6. Assessment</p> <p>A large scrub/ forest fire is currently burning estimated to be over 2100ha as at 0700hrs on 8th 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"> • Eves Valley, • Golden Hills Rd, • Redwood Valley Rd • Tea Pot Valley • Barton Lane <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 8th Feb 2019

Released under the Official Information Act

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

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

4. Agency Representative		Phone	Radio Ch
Lead Agency	FENZ ██████████	██████████	
Agency	Police ██████████		
Agency	██████████		
Agency	CDEM ██████████		
Agency	CDEM Duty Phone		
Agency	FENZ Urban Liason ██████████		

5. Planning/Intell Section		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			

Released under the Official Information Act

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

1. Incident Name Pigeon Valley		2. Operational Period Date 9/2/2019 Time 0700 - 1900		DIVISION ASSIGNMENT <small>RF204a</small>	
3. Division Xray		4. Description Division from Cut hill/Eder Rd to CHH saw mill			
5. Division Commander	<i>Affiliation</i>	<i>Phone</i>	<i>Radio Ch</i>		
██████████		██████████	Fire 5		
6. Resources Assigned this Period					
<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>					
8. Division Communications				<i>Phone</i>	
<i>Radio Ch</i>					
Operations Manager ██████████		██████████		Fire 1/Cellphone	
Air Division Commander ██████████		██████████		Fire 4/Cellphone	
10. Prepared By: ██████████				Date/Time 1900 8/2/19	

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1. Incident Name Pigeon Valley		2. Operational Period Date 9/2/2019 Time 0700 - 1900		DIVISION ASSIGNMENT <small>RF204a</small>	
3. Division Yankee		4. Description Bennets Road to CHH saw mill at Eves Valley			
5. Division Commander	<i>Affiliation</i>	<i>Phone</i>	<i>Radio Ch</i>		
██████████	Wakefield VFB	██████████	Fire 3		
6. Resources Assigned this Period					
<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					
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					
8. Division Communications				<i>Phone</i>	<i>Radio Ch</i>
Operations Manager		██████████	██████████	Fire 1/Cellphone	
Air Division Commander		██████████	██████████	Fire 4/Cellphone	
11. Prepared By: ██████████				Date/Time 1900 8/2/19	

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1. Incident Name Pigeon Valley		2. Operational Period Date 9/2/2019 Time 0700 - 1900		DIVISION ASSIGNMENT RF204a	
3. Division Zulu		4. Description Division from Cut hill/Eder Rd to CHH saw mill			
5. Division Commander	Affiliation	Phone		Radio Ch	
██████████		██████████		Fire 2	
6. Resources Assigned this Period					
<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 Containment line from Pigeon Valley Rd to Barton Rd. Ground crew to prioritise protection of this area.</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 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>					
8. Division Communications				Phone	
				Radio Ch	
Operations Manager		██████████		██████████	
Air Division Commander		██████████		██████████	
				Fire 1/Cellphone	
				Fire 4/Cellphone	
12. Prepared By: ██████████				Date/Time 1900 8/2/19	

1. Incident Name Pigeon Valley		2. Operational Period Date 9/2/2019 Time 0700 - 1900		DIVISION ASSIGNMENT RF204a	
3. Division Property Assessments		4. Description Functional division across Pigeon Valley Incident			
5. Division Commander	Affiliation	Phone		Radio Ch	
6. Resources Assigned this Period					
Sector		Supervisor		Crews	
Radio Ch					
		FENZ Liaison			
7. Division Assignment/Special Instructions					
<ol style="list-style-type: none"> 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. 2. The assessments will include staff from Civil defence, FENZ and specialist contractors as required. 3. Liaison communications will be maintained with division commanders at all times when on the incident ground 4. Timeline for the assessments to be confirmed 					
8. Division Communications				Phone	
Radio Ch					
Operations Manager				Fire 1/Cellphone	
Air Division Commander				Fire 4/Cellphone	
13. Prepared By:				Date/Time 1900 8/2/19	

1. Incident Name Pigeon Valley		2. Operational Period Date 9/2/2019 Time 0700 - 1900		DIVISION ASSIGNMENT RF204a	
3. Division Rabbit Island		4. Description Rabbit Island			
5. Division Commander	Affiliation	Phone		Radio Ch	
██████████		██████████		Fire 3	
6. Resources Assigned this Period					
<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.					
8. Division Communications				Phone	Radio Ch
Operations Manager		██████████		██████████	Fire 1/Cellphone
Air Division Commander		██████████		██████████	Fire 4/Cellphone
14. Prepared By: ██████████				Date/Time 1900 8/2/19	

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

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1. Incident Name Pigeon Valley	2. Operational Period Date 9/2/2019 Time 0700 - 1900	AIR OPERATIONS PLAN 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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1. Incident Name Pigeon Valley		2. Operational Period Date 9/2/2019 Time 0700 - 1900		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 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		
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)					
Resources	resources@FENZNelsonIMT.com				
Safety	safety@FENZNelsonIMT.com				
Logistics	logistics@FENZNelsonIMT.com				
PIM	pim@FENZNelsonIMT.com				
Planning	planning@FENZNelsonIMT.com				
Forward Control Point (FCP)	icu.nelson@fireemergency.nz			[REDACTED]	
Situation / GIS / Intel	situation@FENZNelsonIMT.com				
Operations	operations@FENZNelsonIMT.com				
Photos and imagery	Join Facebook site; Pigeon Valley Fire - INTERNAL COMMS			https://www.facebook.com/groups/1924082991035550/	
6. Prepared by: [REDACTED]				Date/Time 1900 8/2/19	
1. Incident Name		2. Operational Period Date 9/2/2019			

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

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

1. Incident Name Pigeon Valley		2. Operational Period Date 8/2/2019 Time 0700-1900			MEDICAL PLAN RF206					
3. First Aid Station <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				
4. Transportation <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				
5. Hospitals <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	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										
7. Prepared By: [REDACTED] Shift - Manager Nelson						Date/Time 1900 8/2/19				
8. Reviewed by Safety Advisor: [REDACTED]						Date/Time 1900 8/2/19				

1. Incident Name Pigeon Valley	3. Operational Period Date 9/2/2019 Time 0700 - 1900	Weather Forecast
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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

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

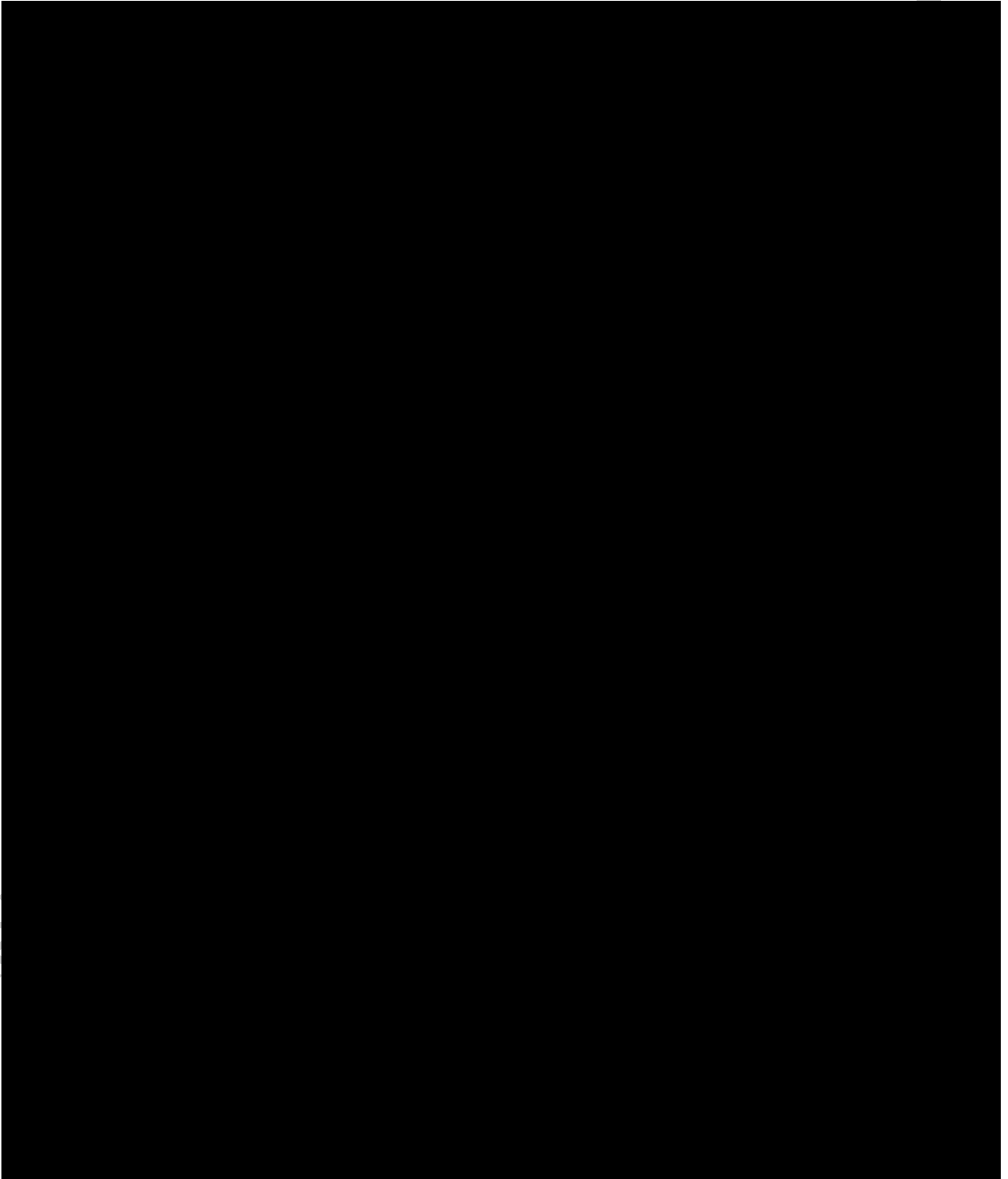
Rates of spread are the equilibrium rate of spread, not the build-up phase, with continuous fuel and similar fuel type.

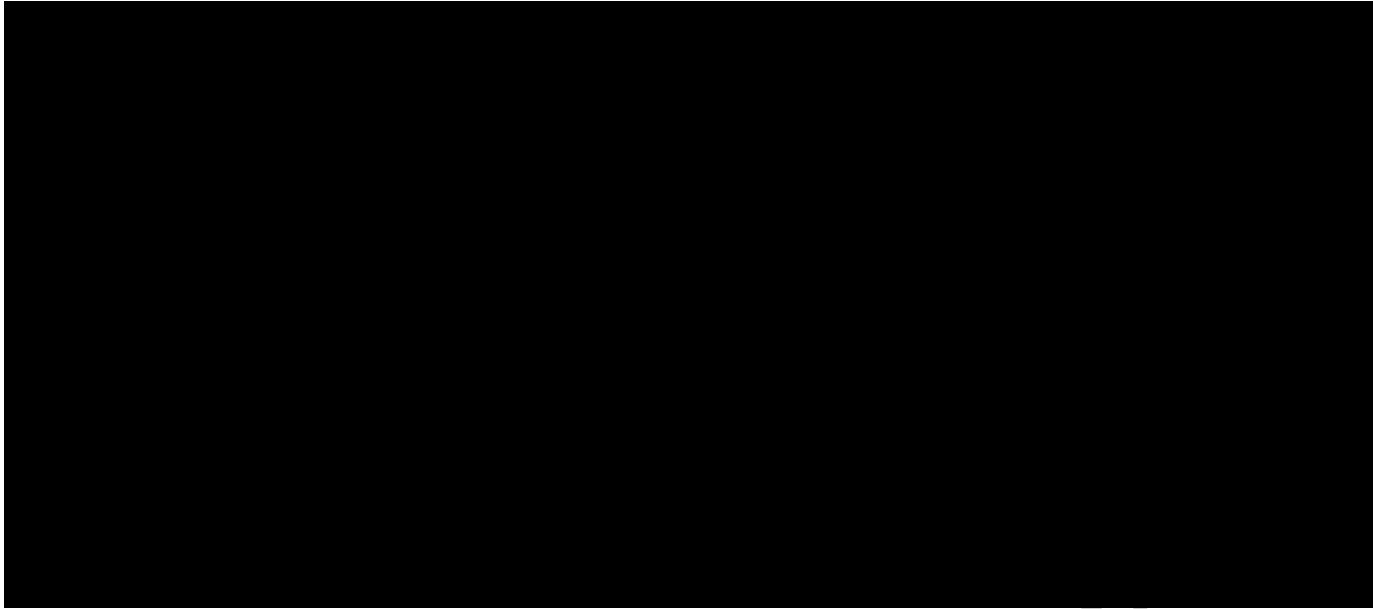
Fire Behaviour General:

<p>Expected fire behaviour – slope 0° (expected fire front)</p>	<p>Forecast worst case – 28°C 45%RH slope 20° 1400-1800</p>
<p><i>Fuel type: Forest/Scrub/gorse mix</i></p>	<p><i>Fuel type: 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 >10000 kw/m Flame lengths 13 m</p>
<p><i>Fuel type: Grass-80% GC, 100% cover, 0.1m height</i></p>	<p><i>Fuel type: 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>Safety Considerations:</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>	

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

QR CODES FOR MAP DOWNLOAD





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1. Incident Name Pigeon Valley Fire, Nelson	2. Operational Period 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 7th 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 – 1st Planning Meeting
 - 13:00hrs – Tactics Meeting (sit-in only)
 - 17:00hrs – 2nd 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 Media@fireandemergency.nz

	1500hrs and 1900hrs		
Evacuated Residents	Community Meeting – first one held at 0900 on Thursday 7 th Feb. Next one potentially Sat 9 th 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 - http://www.nelsontasmancivildefence.co.nz/ Fire and Emergency NZ www.fireandemergency.nz
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 th Feb at 0900hrs at Appleby Fire Station.
Media message distribution	Specific stations or publications
Radio	*See media list The Project (TV) have requested for interviews with firefighters for tomorrow night's show (8 th 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)
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: 8/2/19 1900hrs

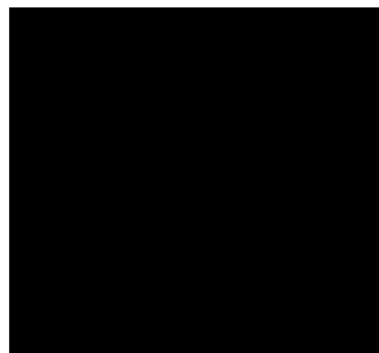
Released under the Official Information Act

Incident Name	Operational Period	IAP COVER SHEET 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



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



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1. Incident Name Pigeon Valley	2. Operational Period Date 9/2/2019 Time 0700 - 1900	SITUATION REPORT RF201
3. Location Pigeon Rd, Eves Valley, Tasman	4. Vegetation Forest/Scrub/Grass/Slash/ Other:	
<p>Latest information as at 1400 9/2/2019: 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"> - 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. 		

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6. Assessment

A large scrub/ forest fire is currently burning estimated to be over 2200ha as at 0700hrs on 9th 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 9th Feb 2019

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

1. Incident Name	2. Operational Period	ORGANISATION ASSIGNMENT	
	Date 9&10/2/2019 Time 1900 - 0700	RF203	
3. Incident Control		Phone	Radio Ch
Incident Controller	██████████		
	██████████ (NIMIT) (Emergency)	██████████	
Deputy IC	██████████ (Emergency)		
Information Officer			
Safety Officer	██████████		
	██████████		
	██████████ (NIMIT) (Emergency)		
Liaison Officer			
4. Agency Representative - Emergency contacts		Phone	Radio Ch
Lead Agency	██████████ FENZ	██████████	
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 - Emergency contacts		Phone	Radio Ch
Logistics Manager	██████████ (NMIT)	██████████	
7. Operations Section		Phone	Radio Ch
Operations Manager	██████████	██████████	
	██████████	██████████	

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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]	
8. Prepared by: [REDACTED]		Date/Time: 1900 9/2/19	

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

Released under the Official Information Act

1. Incident Name Pigeon Valley		2. Operational Period Date 9&10/2/2019 Time 1900 - 0700		DIVISION ASSIGNMENT RF204a	
3. Division Xray		4. Description Division from Cut hill Johnsons Rd to CHH saw mill			
5. Division Commander	Affiliation	Phone	Radio Ch		
██████████		██████████			
6. Resources Assigned this Period					
Sector		Supervisor		Crews	
██████████ 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					
7. Division Assignment/Special Instructions					
<ul style="list-style-type: none"> • X1 Mop up and patrol following prescribed burn • X2 Patrol and protect structures • X3 Monitor Area <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>					
8. Division Communications				Phone	Radio Ch
Operations Manager		██████████	██████████		
10. Prepared By: ██████████				Date/Time 1900 9/2/19	

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

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1. Incident Name Pigeon Valley		2. Operational Period Date 9&10/2/2019 Time 1900 - 0700		DIVISION ASSIGNMENT RF204a	
3. Division Zulu		4. Description Point of ignition to CHH saw mill			
5. Division Commander	Affiliation	Phone		Radio Ch	
██████████		██████████			
6. Resources Assigned this Period					
Sector		Supervisor		Crews	
Radio Ch					
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					
7. Division Assignment/Special Instructions					
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"> • Z1: Rural patrol along Pigeon valley and Wai-iti streams Structural protection in pigeon valley. • Z2 Structure protection in Teapot Valley and surround 					
Zulu 1 – Alpha div break to Barton Lane					
Zulu 2 – Barton lane to Yankee div break.					
8. Division Communications					
Operations Manager		██████████		██████████	
12. Prepared By: ██████████				Date/Time 1900 9/2/19	

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

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1. Incident Name Pigeon Valley		2. Operational Period Date 9&10/2/2019 Time 1900 - 0700			AIR OPERATIONS PLAN RF208	
3. Personnel and Communications						
Position	Name	Affiliation	Phone	Radio Chan		
Air Div Commander	██████████ (Emergency)		██████████			
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	██████████	
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			
6. Safety Notes / Hazards / Radio Coverage Limitations						
7. Air Operations Special Equip or Service Drone operations are tasked to monitor sector Zulu and Yankee for fire movement with infrared						
8. Prepared By: ██████████				Date/Time: 1900 9/2/19		

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1. Incident Name		2. Operational Period		COMMUNICATIONS PLAN RF205
Pigeon Valley		Date 9&10/2/2019 Time 1900 - 0700		
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 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	
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)				
Resources	resources@FENZNelsonIMT.com			
Safety	safety@FENZNelsonIMT.com			
Logistics	logistics@FENZNelsonIMT.com			
PIM	pim@FENZNelsonIMT.com			
Planning	planning@FENZNelsonIMT.com			
Forward Control Point (FCP)	icu.nelson@fireemergency.nz			
Situation / GIS / Intel	situation@FENZNelsonIMT.com			
Operations	operations@FENZNelsonIMT.com			
Photos and imagery	Join Facebook site; Pigeon Valley Fire - INTERNAL COMMS		https://www.facebook.com/groups/1924082991035550/	
6. Prepared by: [REDACTED]				Date/Time 1900 9/2/19

1. Incident Name Pigeon Valley	2. Operational Period Date 9&10/2/2019 Time 1900 - 0700	SAFETY PLAN 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
L - Lookout(s) A – Awareness – Anchor Point(s) C – Communication(s) E – Escape Route(s) S – Safety Zone(s)	<ol style="list-style-type: none"> 1. conditions and forecasts 2. Know what your fire is doing at all times. 3. Base all actions on current and expected fire behaviour of the fire. 4. Identify escape routes and safety zones and make them known. 5. Post lookouts when there is possible danger. 6. Stay alert. Keep calm, Think clearly, act decisively. 7. Maintain prompt communication with your crew/s, your supervisor and adjoining crews. 8. Give clear instructions and ensure they are understood. 9. Maintain control of your crew/s at all times. 10. Fight fire aggressively having provided for safety first. 	<ol style="list-style-type: none"> 1. Fire size is unknown (no size up). 2. Unfamiliar territory 3. Safety zones and escape routes not identified. 4. Unfamiliar with weather and local factors influencing fire behaviour. 5. No communications link with crew members or supervisor. 6. Instructions and assignments not clear. 7. Weather is getting hotter, drier and relative humidity dropping 8. Wind increases and/or changes direction. 9. Getting frequent spot fires across the line 10. Working uphill or down wind of a fire 11. Working on a steep slope 12. Working in rugged terrain 13. Can't see main fire 14. In unburnt vegetation 15. Walking through hot ashes 16. Working alone 17. Getting tired 18. Working near power lines 19. Working near machinery 20. Working with aircraft 21. Working around trees or spars

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.

5. Prepared By:	Date/Time 1900 9/2/19
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1. Incident Name Pigeon Valley		2. Operational Period Date 9&10/2/2019 Time 1900 - 0700			MEDICAL PLAN RF206						
3. First Aid Station Name		Location		Phone/Radio Channel		Paramedics 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 Ambulance Service		Address		Phone/Radio Channel		Paramedics available with Ambulance					
Ambulance St Johns		Closest unit		111		Yes					
5. Hospitals		Address			Phone		Travel Time		Burn Unit	Heli Pad	
Hospital Name		Address			Phone		Road		Air	Unit	Pad
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											
7. Prepared By: [REDACTED] Shift - Manager Nelson						Date/Time 1900 9/2/19					
8. Reviewed by Safety Advisor: [REDACTED]						Date/Time 1900 9/2/19					

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

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.

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

FIRE BEHAVIOUR FORECAST

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

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

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

Fire Behaviour General:

Expected fire behaviour – slope 0° (expected fire front)	Forecast worst case – 28°C 45%RH slope 20° 1400-1800
Fuel type: Forest/Scrub/gorse mix	Fuel type: 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
Fuel type: Grass-80% GC, 100% cover, 0.1m height	Fuel type: 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
Safety Considerations:	
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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