# **QR CODES FOR MAP DOWNLOAD**

Released under the Official Infor

1. Incident Name

Pigeon Valley Fire, Nelson

Date 9&10/2/2019

Time 1900 - 0700

# **Public Information Management Plan**

# Overview of PIM response

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

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

NIMT PIM team - as at Friday 9th February

PIM Manager –

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

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

# **Key Message:**

Evacuated personnel to contact the Civil Defence Welfare Centre Follow the Nelson Tasman Civil Defence facebook page for updates and check their website

Media to contact the PIM Manager

# FENZ Stakeholders and Audience Groups

Organisation	Detail	Name	Contact Info
FENZ Org (forward system to ELT, NCC, OCE and Board)	Requires regular updates — committed to 4x updates daily at 0800hrs, 1100hrs, 1500hrs and 1900hrs	RCC Christchurch	and cc, and Media@fireandemergency.nz
Evacuated Residents	Community Meeting scheduled	Various	Comms through social media, Civil Defence website, welfare team and media.

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

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 9th
	Feb at 0900hrs at Appleby Fire Station.
Media message distribution	Specific stations or publications
Radio	*See media list
TV	
Newspapers	
Попоравон	
Media	Schedule
Media briefing/conferences	Proposing Media Stand Up at 8am – TBC depending on
-0	interest overnight.
Madb dis visite	Now a calculated assumently
Media site visits	None scheduled currently.
Interviews	None scheduled currently

#### Message monitoring

Messaging being monitored by Civil Defence PIM Team and dealt with / passed on accordingly. FENZ PIM team are supporting for Media management and FENZ / Operational information requiring to be gathered and shared.

Prepared by:	Date:	9/2/19 1900hrs
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Sector	Fire loc	ation				Sign	ed			
Supervisor	S-Super	rvisor				Sect				
•	name						ne/Loca	tion		
Report	Shift St	art	Date			Shift	Start		Date	
(to be completed			Time						Time	
following shift	,									
Crews on you										
Crew	C-Leade	er	No.	Equipmen	t use	d that c	rew sup	plied		
Name/Compa	ny Name		Crew	Radios		C-saw		H-To	ols	Oth
									$\mathcal{L}$	
Equipment us			I	l					0	
Pumps	Wajax 1			hrs		Acqual		4		hrs
(hrs for each	Wajax 2			hrs		Watero				hrs
pump)	Wajax 3			hrs hrs		No Dar	ns Used			
Hose Lengths	25mm	•		41mm				70mr	n	
Hose Lengths	4length	s=1nk		3lengths=	1pk			/01111	"	
Suppressants	Foam	.5-1pk		Litres	-pr	(A)		Soap	Сар	
Fire Appliance		he sect	or	.6						
Registration	Туре	Drive	r name	O	Hou Usa site	ge on	Otnei	com	ments	
		1	C	7)						
		1								
		1								
		S								
	2	2								
Harris Market										
Heavy Machin			W NO.		Li a	uni.	Other		mant	
Heavy Machir Registration	nery Used on Type		r name		Hou	_	Other	r Com	ments	
			er name		Usa	ırly ge on	Other	r Com	ments	
			r name			_	Other	r Com	ments	
			er name		Usa	_	Other	r Com	ments	
			er name		Usa	_	Other	r Com	ments	
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			er name		Usa	_	Other	r Com	ments	
			er name		Usa	_	Other	r Com	ments	
			er name		Usa	_	Other	r Com	ments	

	Incident Name	Operational Period	IAP	COVER SHEET				
	Pigeon Valley	Date 10/2/2019		RF199				
		Time 0700 - 1900						
	IN	ICIDENT ACTIO	N PLAN					
	The items checked below are included in the incident Action Plan							
	SITUATION REP	PORT						
	☐ INCIDENT OBJE	CTIVES						
	ORGANISATION	NAL LIST						
	SECTOR ASSIGN	NMENT						
	DIVISIONAL ASS	SIGNMENT						
	AIR OPERATION	NS PLAN						
	COMMUNICAT	ION PLAN						
	SAFETY PLAN		. 0					
	MEDICAL PLAN							
	FIRE MAP							
	WEATHER FORI	ECAST AND MAP						
	FIRE BEHAVIOU	JR FORECAST						
	OVERVIEW MA	PS AND DOWNLO	OAD QR CC	DES				
	☐ PUBLIC INFORM	MATION & MEDIA						
	Approved by Incident Cont	roller: Signed		Date/Time				
	Name			2000 8/2/19				
	7 0,							
	0	,						
(	200		ne					
20)		HAKARATUNGA IWI EMERG						
	w	NEW ZEALAND						



1. Incident Name	2. Operational Period	SITUATION
Pigeon Valley	Date 10/2/2019	REPORT
	Time 0700 - 1900	RF201
3. Location	4. Vegetation	5. NZ Topo50 Grid Ref.
Pigeon Rd, Eves Valley,	Forest/Scrub/Grass/Slash/	41°22'32.51"S
Tasman	Other:	173° 1'31.81"E

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.

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.

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.

Current resources working on the vegetation fire (day 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.

#### 6. Assessment

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

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

Values at risk are life, and property.

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

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

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

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

The fire that started yesterday afternoon at Atawhai Road Fire.

Overhead, helicopters and ground crew were assigned to this fire and resources deployed were 5x helicopteral 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

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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:		Date/1	Гime:	70
Authorised by	(Incident Controller)	1500 9 <sup>th</sup>	Feb 2019	
1. Incident Name	2. Operational Perio	d	60)	SITUATION
Pigeon Valley	Date 9/2/2019			REPORT
	Time 0700 - 1900			RF201
3. Location	4. Vegetation		5. NZ Topo50 Grid	d Ref.
Pigeon Rd, Eves Valley,	Forest/Scrub/Grass/	Slash/	41°22'32.51"S	
Tasman	Other:		173° 1'31.81"E	

1. Incident Name	2. Operational Period	INCIDENT
Pigeon Valley	Date 10/2/2019	OBJECTIVES
	Time 0700 - 1900	RF202

# 3. Overall Incident Objectives

- 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

- 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.
  - Consider operation delivery to minimise impacts in support of the recovery plan.

Specific operational tasks for this shift to meet objectives

- 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
- Establish an 'initial attack capability' for the incident.
- 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.

5. Prepared by: Date/Time: 1900 8/2	2/19
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	1. Incident Name	2. Operational Period		ORGANISATION
		Date 10/2/2019		ASSIGNMENT RF203
		Time 0700 - 1900		W 203
	3. Incident Control		Phone	Radio Ch
	Incident Controller	(NIMT)		
	Deputy IC			
	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			
	. 0			
	96			
	2569			
	03			
	2,0			
	Resources Unit			
2				
	Management Support Unit			
	Information Unit	:		

	Advance Planning Unit			
	Fire investigation			
	6. Logistics Section		Phone	Radio Ch
	Logistics Manager	(NMIT)		
	Supply Uni			
				:.(O)
	Catering Unit			
	Facilities Unit			
	Finance Unit		60.	
	Communications Unit			
	Medical Unit		Disc. s	D - d' - Ch
	7. Operations Section	<b>*</b> ,	Phone	Radio Ch
	Operations Manager			_
	Deputy Operations Manager			_
	Division Alpha			_
	Division Xray			_
	Division Yankee			_
	Division Zulu			_
	Division Atawhai			_
	Air Division Commander			_
	Air Attack Supervisor			_
				_
	Air Wed Supervised Turings			_
	Air Attack Supervisor(Trainee)			_
	Air Support Supervisor			_
				1
20	8. Prepared by:		Data Internation	00.0/2/40
	x Prepared by.		Date/Time: 19	UU 8/2/19

	1. Incident Name Pigeon Valley		2. Operational Period  Date 10/2/2019  Time 0700 - 1900			d	DIVISION ASSIGNMENT	
	3. Division		·	4. Desc	ription		•	
	Alpha			Point o	f ignition to D	ove Saddle o	on Ede	r Rd
	5. Division Commander	Affili	ation		Phone		Radio	o Ch
							Comn	nand: Fire
							Crew	: Simplex
	6. Resources Assigned this Posterior	eriod 		Super	visor	Crews	5	Radio Ch
	Bulldozer D7		TLC					
	Excavator 20 T		TLC			~		
	Hira Smoke Chaser from 2pm	1				&O		
	DOC Motueka +3 PX		Last D	ay				
	DOC Takaka + 8 PX		Last D	ay				
	DOC Nelson Lakes + 4 PX		Last D	ау				
	DOC South Marlborough + 4	PX						
	JNL + 4 PX							
	A1  Dozer to continue to wide Smoke chaser and crews to possible and safe.  Structure protection in Sh	n Rou olackin	ng out t		n 10m increm	ents along p	erimet	er where
	Feller buncher to continue required on fire ground. To Mop up with ground crews	o be d	irected	by Heav	y equip. mana			
_(	Helicopters to support groun request  Alpha 1 - Div break to Ford o Alpha 2 – From ford on Sharp	n Shar	rps Rd					
	8. Division Communications					Phone		Radio Ch
4	Operations Manager							Fire 1/Cellphone
	Air Division Commander							Fire 4/Cellphone
	9. Prepared By:					Date/Time	1900	9/2/19
								<u> </u>

1. Incident Name Pigeon Valley		2. Operational Per Date10/2/2019 Time 0700 - 1900	riod	DIVISION ASSIGNMENT RF204a
3. Division		4. Description		NI 204a
Xray		Division from Cut I	hill Johnsons Ro	d to CHH saw mill
5. Division Commander	Affiliation	Phone		Radio Ch
				Fire 5
6. Resources Assigned this P	eriod			
Sector		Supervisor	Crews	Radio Ch
D155 Dozer				
Nicholson Tanker	13,00	00 L		
Excavators X2				
Appleby Tanker (short crewe	d)		(0)	
Smoke Chaser Wainui 3px				
NZDF RFA x7px				
Invercargill Crew + 5 PX				
AFM – 4px		~~0		
Otago Crew + 5 PX		,C1O,		
Hurunui Crew + 4 PX				
X1 Mop up with ground crev saddle and assist on Johns X2 Check and enhance perim	ons Rd if req	uired		
X3 Monitor only, no operation	ns required	at this stage.		
Helicopters to support groun VHF 4 with requirements	d operations	s as required. Division	n Commanders	to call Air attack on
Xray 1 – Cuthill/Johnsons Re Xray 2 - 5423000/1603000 to Xray 3 - Redwood Valley Rd	o intersection	n of Redwood Valley	Rd and Red S	
8. Division Communications			Phone	Radio Ch
Operations Manager				Fire 1/Cellphone
Air Division Commander				Fire 4/Cellphone
10. Prepared By:			Date/Time	1900 9/2/19

1. Incident Name Pigeon Valley		Date 10	ational Perio 1/2/2019 700 - 1900	d	A	DIVISION SSIGNMENT
3. Division		4. Desc	ription			RF204a
Yankee			s Road to CHI	H saw mill at	Eves \	/alley
5. Division Commander	Affiliation		Phone		Radio	o Ch
	Wakefield	VFB			Fire 3	
6. Resources Assigned this  Sector	1	Superv	isor	Crews	5	Radio Ch
2x Excavator 20T	Taylo					
Bulldozer D8	Taylo	ors				<b>O</b>
Brightwater 5026 + 4px					(4)	
Rural Tanker Downers + 1px	(					
Brightwater 5071 + 3px				XO		
Stoke 221 + 5px						
Richmond 331 + 4px						
Ngatimoti 5375 + 4px			10			
Wellington 2 + 5 PX						
West Coast 2 + 5 PX And Sm Chaser and Tanker	юке	- CX				
Y1 Push fire line in from Edd Monitor existing fire break  Y2 Continue felling Eucalype Protect Mill and surroun  Helicopters to support ground VHF 4 with requirements  Yankee 1 — South edge of many Yankee 2 — Xray div break to	tus trees arou ding structure nd operations	in Eves Va es s as requir k at Zulu	lley Mill ed. Division (		s to cal	l Air attack on
8. Division Communications Operations Manager	S			Phone	; •	Radio Ch
Air Division Commander						Fire 4/Cellphone
11. Prepared By:				Date/Time	1000	-

	1. Incident Name Pigeon Valley			Date 1	rational Perio 0/2/2019 700 - 1900	d	DIVISION ASSIGNMENT RF204a
	3. Division			4. Desc	ription		
	Zulu			Point o	f ignition to C	HH saw mill	
	5. Division Commander	Affilio	ation		Phone		Radio Ch
							Fire 2
	6. Resources Assigned this P	eriod					
	Sector			Super	visor	Crews	Radio Ch
	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 Z1 Protection of cell tower w				• (0)		
	this area due to large num Remove vegetation betwee North to the road near the Lay a contingent retardant of Pigeon and Wai iti streat Lay a contingent retardant Commander.  Will instruct Division Comma  Z2 Link containment line from Protection of dairy farm a Ground crews continue to Protection of structures in Helicopters to support ground VHF 4 with requirements  Zulu 1 – Alpha div break to Bart	een Pige small tine bams. Iine ar nder of mop of the artoped and oper and o	geon Cr bridge y tanke ound s f exact on Rd t uctures up. p of Dro	eek and across of er & hose tructure location to Tea Po	dry creek. e 5 metres wides north of Wans at morning of valley. extending def	de on the for akefield as di briefing Fensible spac	rest side at the junction rected by Div e.
<b>\</b>	Zulu 2 – Barton lane to Yank						D !! 0!
*	8. Division Communications					Phone	
	Operations Manager						Fire 1/Cellphone
	Air Division Commander						Fire 4/Cellphone
	12. Prepared By:					Date/Time	1900 9/2/19

1. Incident Name Pigeon Valley		Date 10	ational Perio 0/2/2019 700 - 1900	d	AS	DIVISION SIGNMENT RF204a
3. Division Atawhai		4. Desc	ription		<u> </u>	N 2048
5. Division Commander	Affiliation		Phone		Radio	Ch
	FENZ					
6. Resources Assigned this Sector	Period	Superv	risor	Crews		Radio Ch
Doc S.Cant Crew 8px (2 mer	ged)					7
Hawks Bay Crew – 5px						
716 smoke chaser				(0)		
Hira Smoke chaser 2px						
Winn Tanker (Bulk) 1x						
			. 0			
7. Division Assignment/Spe	ecial Instruction	ns			·	
Ground crews continue to n	nop up and bla	cken out				
Deeper seated spots will ne	St. Mile	ut.				
8. Division Communications	S			Phone I	ı	Radio Ch
Operations Manager _						
13. Prepared By:				Date/Time	1900 9	/2/2019

1. Incident Name		2. Ope	rational Perio	od	DIVISION
Pigeon Valley		Date 1	0/2/2019		
			700 - 1900		ASSIGNMENT
					RF204a
3. Division		4. Desc	cription		
Property Assessments		Function	onal division a	cross Pigeon	Valley Incident
5. Division Commander	Affiliation		Phone		Radio Ch
6. Resources Assigned this I	Period		1		
Sector		Super	visor	Crews	Radio Ch
	FENZ	Liaison			20
				(0)	
7. Division Assignment/Spe	ecial Instruction	ons			
1. The property asses	sments are be	eing plan	ned and comp	oleted to ens	ure the safety of
responders and res	idents during	visitatio	n and reoccup	ation. Fire d	anger risk assessments
will be completed f			A ' // I'		
•		•			nding 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
- 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

required.

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

Personnel and Communications Position Air Div Commander  Air Attack Supervisor  Air Support Supervisor  Lead Helicopter Pilot  Lead Fixed-Wing Pilot  Lead Fixed-Wing Pilot  Air Resource Assignments  Pilot Name/ Supervisor  Type Call sign Ment Freq/Chan Fire 4  ecks UH-1 HHB Fire 4  ecks UH-1 HUE Fire 4  eid Hell B2 HPE Fire	1. Incident Nam	е	2. Operatio	nal Perio	d		AIR OP	ERATIONS PLAN
Personnel and Communications Position Air Div Commander Air Attack Supervisor Air Attack Supervisor Air Support Supervisor Air Support Supervisor  Lead Helicopter Pilot Lead Fixed-Wing Pilot Lead Fixed-Wing Pilot Lead Fixed-Wing Pilot Air Resource Assignments Pilot Name/ Call sign ment Freq/Chan ecks UH-1 HHF Fire 4 elicharter 5000 HXX Fire 4 elicharter 5000 HXX Fire 4 elicharter 5000 HXX Fire 4 elicharter Source Supervisor Fire 4 elicharter Source Supervisor Fire 4 elicharter Source Fire 4 elicharter Source Supervisor Fire 4 elicharter Source Supervisor Fire 4 elicharter Source Fire 4 elicharter Fire 4 el	Pigeon Valley		Date 10/2/2	2019				RF208
Position Air Div Commander  Air Attack Supervisor  Air Attack Supervisor  Air Attack Supervisor  Air Support Supervisor  Lead Helicopter Pilot  Lead Fixed-Wing Pilot  Air Reg or Call sign ment  Pilot Name/ Assign-ment  Pilot Name/ Div Call sign ment  Type  Call sign ment  Freq/Chan  South 1 HHF Fire 4  elicharter 5000 HXX Fire 4  elicharter 1 B3 IHL Fire 4  elicharter 1 B2 INB Fire 4  elicharter 1 B2 INB Fire 4  elicharter 1 B2 INB Fire 4  elicharter 1 B3 IHL Fire 4  elicharter 1 B3 IHL Fire 4  elicharter 2 B3 IHL Fire 4  elicharter 3 B3 IHL Fire 4  elicharter 5			Time 0700 -	1900				
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		UAV						

Interpine	RPAS /	PINES2		Fire 4	
	UAV				
Usar	RPAS /	PINES3		Fire 4	
	UAV				
5. Location of Filling	g Points/Servi	ice Areas			
	Name				Grid Reference
Heli base			-41.317	77, 137.1098	7
		-		.9 S 173 05 0	

# 6. Safety Notes / Hazards / Radio Coverage Limitations

# 7. Air Operations Special Equip or Service

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

zeleased linder line

**8. Prepared By:** Date/Time: 1900 8/2/19

1. Incident Name Pigeon Valley		2. Operational Date 10/2/2019		COMMUNICATIONS PLAN
rigeon valley		Time 0700 - 19		RF205
3. Radio Channels  Assigned To	Function	Channel	Frequency	System
Command		Waimea 1	152.55000 RX	
			154.33125 TX	
Division Alpha	Operational	Fire 1	143.8250	0
Division Zulu	Operational	Fire 2	143.7875	0
Division Yankee	Operational	Fire 3	140.9250	0
Division Xray	Operational	Fire 1	143.8250	0
Air Ops -Heli	Operational	Fire 4	140.6125	0
Air Ops – Fixed Wing	Operational	Fire 10	140.9875	0
Emergency		Waimea 1	152.55000 RX 154.33125 TX	2,
Resources		Waimea 1	152.55000 RX 154.33125 TX	
FireCom		FireCom		
2 Hourly - Sitrep		OPSR2	Use mobile if di	fficult coms to FCP
4. Telephone			<u> </u>	
Assigned To	Landline	Cell phone	Fax	Comments
Emergency		111		
Regional Command Centre (RCC)	4/0			
6. Other (e.g. email,			1	
Resources		NZNelsonIMT.com	1	
Safety	safety@FENZN	lelsonIMT.com		
Logistics	logistics@FENZ	ZNelsonIMT.com		
PIM	pim@FENZNel	sonIMT.com		
Planning	planning@FEN	ZNelsonIMT.com		
Forward Control Point	t ( <u>icu.nelson@fir</u>	eemergency.nz		
Situation / GIS / Intel	situation@FEN	IZNelsonIMT.com		
Operations	operations@Fl	ENZNelsonIMT.co	<u>m</u>	
Photos and imagery	Join Facebook INTERNAL CON	site; Pigeon Vall MMS		ttps://www.facebook.com/ roups/1924082991035550/
6. Prepared by:			D	Pate/Time 1900 8/2/19
7.				

# 1. Incident Name 2. Operational Period Pigeon Valley Date 10/2/2019 Time 0700 - 1900 SAFETY PLAN RF209

# 3. General Safety Points

Everyone is to be signed in and out of the fire ground through the Incident Control Point for both safety check and payment records (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)	<ol> <li>conditions and forecasts</li> <li>Know what your fire is doing at all times.</li> <li>Base all actions on current and expected fire behaviour of the fire.</li> <li>Identify escape routes and safety zones and make them known.</li> <li>Post lookouts when there is possible</li> </ol>	<ol> <li>Fire size is unknown (no size up).</li> <li>Unfamiliar territory</li> <li>Safety zones and escape routes not identified.</li> <li>Unfamiliar with weather and local factors influencing fire behaviour.</li> <li>No communications link with crew members or supervisor.</li> <li>Instructions and assignments not clear.</li> <li>Weather is getting hotter, drier and relative</li> </ol>
E – Escape Route(s)  S – Safety Zone(s)	danger.  6. Stay alert. Keep calm, Think clearly, act decisively.	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
	<ul><li>7. Maintain prompt communication with your crew/s, your supervisor and adjoining crews.</li><li>8. Give clear instructions and ensure they are understood.</li></ul>	<ul> <li>11. Working on a steep slope</li> <li>12. Working in rugged terrain</li> <li>13. Can't see main fire</li> <li>14. In unburnt vegetation</li> <li>15. Walking through hot ashes</li> </ul>
	<ul><li>9. Maintain control of your crew/s at all times.</li><li>10. Fight fire aggressively having provided for safety first.</li></ul>	<ul> <li>16. Working alone</li> <li>17. Getting tired</li> <li>18. Working near power lines</li> <li>19. Working near machinery</li> <li>20. Working with aircraft</li> <li>21. Working around trees or spars</li> </ul>

# 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 eventof harm. Meeting at preidentified 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 8/2/19

1. Incident Name		2. Operatio	nal Perio	od		MFI	DICAI	
Pigeon Valley		Date 10/2/2	2019					
		Time 0700 -	1900		PLAN RF206			
3. First Aid Station Name Loc		ation		ne/Radio nnel				
Each Crew must have available one First aid Level 1 Certified	Each cre	w			•	S		
Nelson 91 Ambulance	Forward comman	d post	Waim	iea 1	1 Paramedic	and 1 E	MT	
				۷.(	30.			
4. Transportation  Ambulance Service	Add	dress		ne/Radio nnel	Paran available wi		ulance	
Ambulance St Johns	Closest u	ınit	111		Yes			
5. Hospitals Hospital Name	Address	s PF	none	Road	Travel Time Air	Burn Unit	Heli Pad	
Nelson Public Emergency	Waimea R	?d. 111		27m	4min	У	У	
Hutt Hospital (Burn Unit)		111		n/a	40min	Υ	У	
6. Special Emergency Procedur St John will transport patients t		r health faci	ity is ap	propriate				

Shift - Manager Nelson

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

7. Prepared By:

# Short range FORECAST

# 4 pm Saturday – 6 am Sunday

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

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

Wind gusts: Currently gusting ~ 30 km/h and beginning to ease. Gusts will gradually

decrease to 15 km/h or less from 11pm onward.

**Temperature:** Decreasing to near 14°C early morning. **Humidity:** 70% and increasing to near 95% after midnight.

# 6 am - 6 pm Sunday

Rainfall: None expected

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

Wind gusts: Gusts around 10 km/h at 6am gradually increasing up to 25 km/h by 12pm.

From 1pm-6pm gusts up to 45 km/h are possible.

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

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

# **Outlook for Monday:**

Rainfall - None expected. Afternoon wind gusts up to 35 km/h possible. Maximum temperature 23-24°C.

# **Outlook for Tuesday:**

Light afternoon/evening showers possible Afternoon wind gusts up to 40 km/h possible. Maximum temperature 25-26°C

# FIRE BEHAVIOUR FORECAST

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

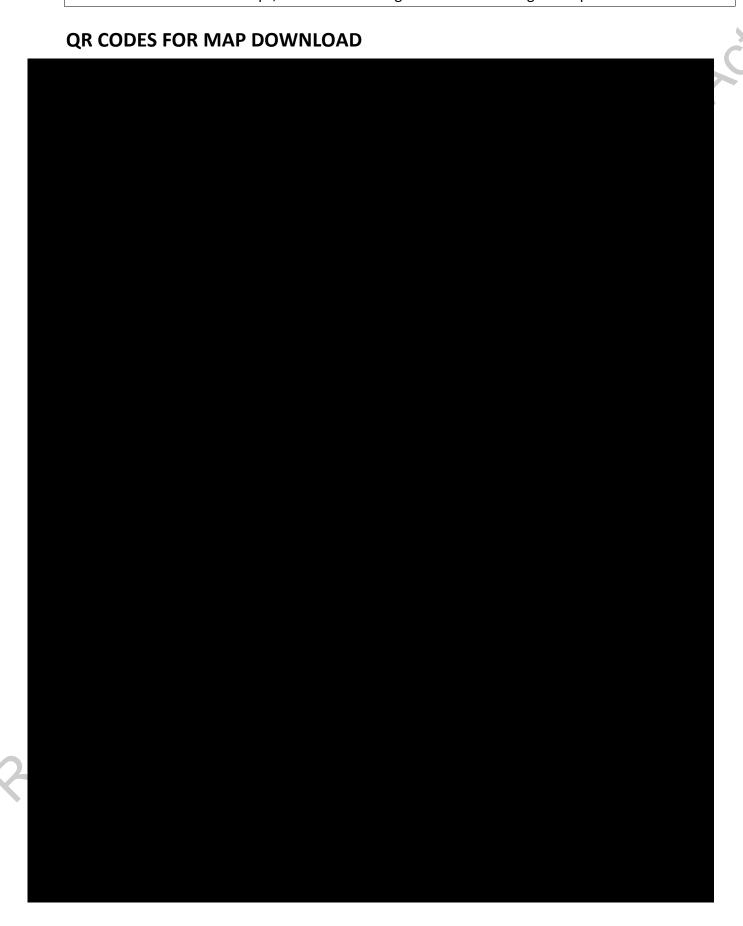
Assumptions: Dovedale weather station				Saturda y's forecast					
Temp *	RH %	Wind km/hr	Slope *	FFMC	DMC	DC	ISI	BUI	FWI
21	65	15	0	79	102	477	7	133	18

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 front)	r – slope 0°	<b>Forecast</b> worst case – 28°C 4 1400-1800	5%RH slope 20°
Fuel type: Forest/Scrub/gors	e mix	Fuel type: Forest/Scrub/ go	rse mix
Expect HF rate of spread of		Expect HF rate of spread of	
HF Intensity 2	939 kw/m	HF Intensity	-8900 kw/m
Flame lengths	3.1 m	Flame lengths	5 m
Fuel type: Grass-80% GC, 100 height	% cover, 0.1m	Fuel type: Ungrazed Grass cover, 0.2m height	-70% GC, 100%
Expect HF rate of spread of	500 m/hr	Expect HF rate of spread of	1600 m/hr
HF Intensity	630 kw/m	HF Intensity	1570 kW/m
Flame lengths	1.4 m	Flame lengths	2.3 m
Safety Considerations:		.0(0)	
Head Fire intensity, in pine/so	crub fuels will	Head Fire intensity exceed t	hreshold for
require air attack.		direct attack in gorse and ma	
		fuels Flank fires intensity i	s now too high
		for ground crews	
Based on the Dovedale weath	ner station and		
NIWA forecasting.	**		
296			
38891111100			RF201a

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





Released under the

# **Public Information Management Plan**

# **Overview of PIM response**

The NIMT 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.

The overall PIM team is increasing personnel numbers.

NIMT PIM team – for Sunday 10th February

PIM Manager –
Media Officer –
PIM Support –

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

The PIM Team roster is available from NIMT Logistics Manager.

# PIM meetings:

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

# **Key Messages:**

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

**FENZ Stakeholders and Audience Groups** 

Organisation	Detail	Name	Contact Info				
FENZ Org (forward system to ELT, NCC, OCE and Board)	Requires regular updates – committed to 4x updates daily at 0800hrs, 1100hrs, 1500hrs and 1900hrs. Additionally a phone call every hour	Christchurch	RCC R4 & R2, NCC, , Nelson Tasman CD Planning & Intel, NIMT Situation Unit, Comms Team				
Evacuated Residents	Community Meeting – next one on Monday 11 <sup>th</sup> Feb	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 specifi	Details of the specific sites or types					
Websites	Fire and Emergency	Nelson Tasman Civil Defence - <a href="http://www.nelsontasmancivildefence.co.nz/">http://www.nelsontasmancivildefence.co.nz/</a> Fire and Emergency NZ <a href="http://www.nelsontasmancivildefence.co.nz/">www.fireandemergency.nz</a>					
Social media	Fire and Emergency	annel: Nelson Tasman Civil Defence facebook page Emergency NZ facebook page Malborough Fire Area facebook page					
Helpline	Welfare Helpline – 0	Welfare Helpline – 03 543 8400					
Information point							
Community contacts/meeting		Community Meeting Monday 11 <sup>th</sup> February – details TBC.					
Media message distribution	Specific stations or p	ublications					

	Media message distribution	Specific stations or publications
	Radio TV	*See media list
6-6	Newspapers	

Media	Schedule
Media	Media Stand Up at 0830hrs.
briefing/conferences	Media Stand Up at 1530hrs.
	2 hourly Media Releases
Media site visits	Stuff reporter requested for flyover - TBA
Interviews	Regular interviews with FENZ personnel

# Message monitoring

Released under the official index the Messaging is being monitored by Civil Defence PIM Team and dealt with / passed on accordingly. FENZ PIM team are supporting for Media management and FENZ / Operational information

1. Incident Name2. Operational PeriodPigeon Valley Fire, Nelson09/02/2019 – 0700 to 1900

Pigeon valley Fire	e, ivei	son			09/02	/201	9 –	0/00 to 19	<u> </u>		
Sector	Fir	re loca	tion					Signed			
Supervisors	S-	Superv	isor					Sector			
-	na	ame					_	Name/Loca	ation		
Report	Sh	nift Sta	rt	Date			_	Shift Start		Date	
(to be				Time						Time	
completed											
following shift)											
Crews on your											$\overline{}$
Crew		Leader	•	No.		t use		hat crew su	•	_	
Name/Compan	y Na	ame		Crew	Radios		C-:	saw	Н-То	ols	Other
										مزر	
<u></u>								<u> </u>			
Equipment use			tor				-				
Pumps		ajax 1			hrs		_	qualite 1			hrs
	_	ajax 2			hrs			aterous 1			hrs
(hrs for each		ajax 3			hrs	<b>.</b>	No	Dams Use	d		
pump)		ajax 4			hrs						
Hose Lengths		īmm			41mm		) `		70m	m	
		engths	=1pk		3lengths=	1pk					
	Suppressants Foam			Litres		Soap	Сар				
Fire Appliances		d on th									
Registration	ration Type Driver n				ourly Other Comments						
						Usa	_	on			
						site					
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		7									
	V	•									
			•								
Heavy Machine		sed on						0.1	•		
Registration	Туре		Drive	r name		Hou			r Com	ments	
						Usa	_	on			
						site					
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ı		Ι_			
	Incident Name	Operat	ional Period	IAP	COVER SHEET RF199
	Pigeon Valley		0&11/2/2019		KF133
		Time 1	900 – 0700		
	IN	ICIDE	NT ACTION I	PLAN	
	The items che	cked belo	ow are included in the i	ncident Actio	on Plan
	SITUATION REP	ORT			
	☐ INCIDENT OBJE	CTIVE	S		
	ORGANISATION	IAL LI	ST		
	SECTOR ASSIGN	<b>IMEN</b>	Т		
	DIVISIONAL ASS	SIGNN	∕IENT		
	COMMUNICAT	ION P	LAN		
	SAFETY PLAN				
	MEDICAL PLAN		*		
	FIRE MAP		<i>*</i> .C		
	WEATHER FORI	ECAST	AND MAP		
	FIRE BEHAVIOU	JR FOI	RECAST		
	OVERVIEW MA	PS AN	ID DOWNLOAI	D QR CC	DES
	PUBLIC INFORM	ЛАТІС	N & MEDIA		
	Approved by Incident Cont	troller:	Signed		Date/Time
	Name		**		1900 10/2/19
20		HAKARATONGA	FIR EMERGEN		



1. Incident Name	2. Operational Period	SITUATION
Pigeon Valley	Date 10&11/2/2019	REPORT
	Time 1900 – 0700	RF201
3. Location	4. Vegetation	5. NZ Topo50 Grid Ref.
Pigeon Rd, Eves Valley,	Forest/Scrub/Grass/Slash/	41°22'32.51"S
Tasman	Other:	173° 1'31.81"E

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.

A low intensity controlled burn was completed in understorey in north western (X-Ray Div) to bring the burnt area out to the containment lines. This will aid our goal of overall containment of the fire and may help speed return of residents to this area

Weather conditions are reaching their peak for the day and are in line with those predicted. We are hoping these not exceed predictions. High RH and low temps will continue through to Sunday, with a daily regular wind shift pattern of morning SW transitioning to NE in the afternoon. A revised weather forecast from NIWA has lowered the wid speed prediction to 20kph gusting to 30kph rather than 40kph tomorrow

Current resources working on the vegetation fire (day 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.

#### 6. Assessment

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

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

Values at risk are life, and property.

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

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

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

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

The fire that started yesterday afternoon at Atawhai Road Fire.

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

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

### 7. Action taken

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

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

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

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

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

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

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

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

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

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

A fire observer will also monitor the Atawhai Road fire.

### 8. Factors,

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

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

# 9. Predicted Incident Development

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

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

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

10. Prepared by:		Date/Time:	<b>10</b>
Authorised by	(Incident Controller)	10/2/19 1900hrs	

le ased under the official

1. Incident Name	2. Operational Period	INCIDENT
Pigeon Valley	Date 10&11/2/2019	OBJECTIVES
	Time 1900 – 0700	RF202

# 3. Overall Incident Objectives

- 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

- 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.
  - Consider operation delivery to minimise impacts in support of the recovery plan.

# 5. Specific operational tasks for this shift to meet objectives

- Crew blacking out to 30m in 10m increments
- Patrol, and monitor all fire edges, focusing on prescribed burn in Zulu 1 and Eder and Cuthill
- Protection of identified structures and assets including cell phone towers, dairy farms and structures in Drones Rd, Teapot Valley, Pigeon Valley and Mill.
- Create and strengthen firebreaks focusing on Heines and Foxes Rd. New breaks on Golf Rd linkages
- Urban appliances tasked for structure protection Teapot Valley.
- Drone hotspot and perimeter surveys.
- Tree Felling around Mill
- Initial Attack crew on standby

5.	Prepared by:	<b>Date/Time:</b> 10/2/19 1900hrs

1. Incident Name	2. Operational Period		ORGANISATION
	Date 10&11/2/2019		ASSIGNMENT RF203
	Time 1900 – 0700		KF2U3
3. Incident Control		Phone	Radio Ch
Incident Controller			
	(NIMT) (Emergency	y)	
Deputy IC	(Emergency)		
Safety Officer			
			. 0
	(NIMT) (Emergency	7)	
4. Agency Representative - Emo	ergency contacts	Phone	Radio Ch
Lead Agency			
Agency			
Agency			
Agency	<u> </u>		
Agency			
Agency			
Agency	TENZ OTBATI LIASOTI		
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	(NIMT)	C	
7. Operations Section		Phone	Radio Ch
Operations Manager			
60			
Deputy Operations Manager	•		
2			
(P)			
Division Alpha Commande			
Division Xray Commande			
Division Yankee Commande			
Division Zulu Commande			

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



1. Incident Name Pigeon Valley		2. Operational Period Date 10&11/2/2019 Time 1900 – 0700	DIVISION ASSIGNMENT				
3. Division	3. Division		4. Description				
Alpha		Point of ignition to	Dove Saddle o	n Eder Rd			
5. Division Commander	Affiliation	Phone		Radio Ch			
				V			
6. Resources Assigned this Posterior	eriod	Supervisor	Crews	Radio Ch			
D65 Dozer							
D7 Dozer							
210 Excavator							
772-4 Grader			KO.				
850-2 Dozer							
NFM 8px Crew							
• A2  Monitor Eder and Cut Crews blackening out to Widen Heines and Foxe Cut break from Eder Rd  Alpha 1 - Div break to Ford of Alpha 2 - From ford on Sharp	chill roads, es o 30m in 10m s Rd to Sunrise to ~6.5k mark	pecially around the a ncrements where safe e Valley then down prominent	to do so t ridge to Forest	Rd at A1/A2 junction			
8. Division Communications Operations Manager			Phone	Radio Ch			

	1. Incident Name Pigeon Valley		2. Operational Pe Date 10&11/2/20 Time 1900 – 0700	DIVISION ASSIGNMENT RF204a		
	3. Division		4. Description		N.F.	204a
	Xray		Division from Cut	hill Johnsons Ro	d to CHH saw mill	
	5. Division Commander	Affiliation	Phone		Radio Ch	
		33				
	6. Resources Assigned this P Sector Packer Crew	eriod	Supervisor	Crews	Radio Ch	
	AFM Crew				~0	
	Appleby Crew					
	Brightwater Tank 5075+ Crev	v		10		
	Upper Takaka CAF + Crew					
	RT 210B Excavator					
	RT 210A Excavator					
	RD JD850 Dozer		1.0			
	Higgins Tanker		.0\0			
	<ul> <li>7. Division Assignment/Species</li> <li>X1  Mop up and patrol f</li> <li>X2  Patrol and protect s</li> <li>X3  Monitor Area</li> <li>Xray 1 – Cuthill/Johnsons Rexiray 2 - 5423000/1603000 t</li> <li>Xray 3 - Redwood Valley Rd</li> </ul>	following presonant tructures ed intersection o intersection	ribed burn. Blacken o n (new Div break) to of Redwood Valley	o 5423000/1603 y Rd and Red S		
60)	8. Division Communications Operations Manager			Phone	Radio Ch	
	10. Prepared By:			Date/Time	10/2/19 1900hrs	

L. Incident Name Pigeon Valley		2. Operational Per Date 10&11/2/20 Time 1900 – 0700	DIVISION ASSIGNMENT RF204a	
3. Division		4. Description		111 2040
Yankee		Bennets Road to	CHH saw mill at I	Eves Valley
5. Division Commander	Affiliation	Phone		Radio Ch
6. Resources Assigned this Po	eriod			
Sector		Supervisor	Crews	Radio Ch
Wainui 541 – Defence crew				
Upper Takaka + 5px	Last r	night		
210 Excavator				
240 Excavator			(O)	
336 Excavator				
D8 Dozer				
		. 0		
Tree felling machine Patrols to protect m  Yankee 1 – South edge of mi Yankee 2 – Xray div break to	ill and surrou Il to div brea	k at Zulu	ill.	
8. Division Communications Operations Manager			Phone	Radio Ch

	1. Incident Name Pigeon Valley		Date 10	2. Operational Period  Date 10&11/2/2019  Time 1900 – 0700			DIVISION ASSIGNMENT RF204a	
	3. Division		4. Descr	ription				
	Zulu		Point of	ignition to C	HH saw mill			
	5. Division Commander	Affiliation		Phone		Radio Ch		
	6. Resources Assigned this P  Sector	1	Super		<i>Crews</i>		Radio Ch	
	AFM Crew 5px	La	ast night 1	lth		X		
	Bears Smoke Chase					~0		
	Maraharu VRRF smoke Chase	er						
	Bears Tanker							
	Tapawera 01 + 10px	- l'			X			
	Brightwater 5071 – Rural App	piiance						
	Takaka 391 Urban appliance							
	Wainui Urban appliance							
	D8 Dozer 155-6 Dozer			$\Theta$				
	21T Excavator							
	26T Excavator		0					
	201 EXCAVATOI	0	<b>&gt;</b>					
20	7. Division Assignment/Spec 21 Rural patrol along pigeo Structure protection in particular Blackening out to 30m  22 Structure protection in Tare break from Bradley's area of Golf Rd. Continue to construct medical Continue to Construct medical Section 2 – Barton lane to Yankee	n and Wai-iti pigeon valley eapot Valley s gate up ride echanical bre ton Lane div break.	i streams	_	nsular in Z1 t	o Z2 (Coo	ks Rd area)	
	8. Division Communications Operations Manager		<u> </u>		Phone	1	Radio Ch	
	12. Prepared By:				Date/Time	10/2/19	1900hrs	
		<del></del>			1			

	1. Incident Name Pigeon Valley		Date	2. Operational Period  Date 10&11/2/2019  Time 1900 – 0700			IVISION NMENT RF204a
	3. Division		4. De	escription			111 2040
	Atawhai						
	5. Division Commander	Affiliatio	on	Phone		Radio Ch	7
	6. Resources Assigned this Po Sector	eriod	Sup	ervisor	Crews	R	adio Ch
	Tasman Smoke Chaser + 2px						
,							
•							
				.0			
				<i>/</i> .()			
			0				
	<b>7. Division Assignment/Spec</b> Ground crew to continue to r			n out.			
	Deeper seated spots need to						
< (	8. Division Communications				Phone	R	adio Ch
	Operations Manager						
4	13. Prepared By:				Date/Time		

<b>I. Incident Name</b> Pigeon Valley		2. Operational Peri Date 10&11/2/201 Time 1900 – 0700	DIVISION ASSIGNMENT	
3. Division		4. Description		III 2
Structure protection		Functional division	across Pigeon	Valley Incident
5. Division Commander	Affiliation	Phone		Radio Ch
6. Resources Assigned this P Sector	eriod	Supervisor	Crews	Radio Ch
				<b>C</b> , 0,
			(0)	
<ul><li>requested from logi</li><li>Any activities within geographical divisio</li></ul>	es and respon stics geographica n commande	se to meet requirem I divisions must be u r	nder the direc	tion and control of th
<ul> <li>Coordinate resource requested from logi</li> <li>Any activities within geographical divisio</li> <li>Urban division also</li> </ul>	es and respon stics geographica n commande	se to meet requirem I divisions must be u r	nder the direc	P work assignments a tion and control of the ment of Urban crews
<ul> <li>Coordinate resource requested from logi</li> <li>Any activities within geographical divisio</li> <li>Urban division also</li> </ul> 8. Division Communications	es and respon stics geographica n commande	se to meet requirem I divisions must be u r	nder the direc	tion and control of the ment of Urban crews
<ul> <li>Coordinate resource requested from logi</li> <li>Any activities within geographical divisio</li> <li>Urban division also</li> </ul> 8. Division Communications Operations Manager	es and respon stics geographica n commande	se to meet requirem I divisions must be u r	nder the direc	tion and control of the ment of Urban crews  **Radio Ch**   Fire 1/Cellpho
<ul> <li>Coordinate resource requested from logi</li> <li>Any activities within geographical divisio</li> <li>Urban division also</li> </ul> 8. Division Communications	es and respon stics geographica n commande	se to meet requirem I divisions must be u r	nder the direct and replenish	tion and control of the ment of Urban crews

Pigeon Valley Date 10&11,			<b>Operational Pe</b> lte 10&11/2/201	19	DIVISION ASSIGNMENT
3. Division					RF204a
			Description	ъ.	V II
Initial Attack		Fur	nctional divisior	n across Pigeon	Valley Incident
5. Division Commander	Affiliat	ion	Phone		Radio Ch
6. Resources Assigned this P Sector	eriod 	Su	pervisor	Crews	s Radio Ch
				(	
				40	
Be available at FCP for required	or imme	diate res	ponse to any ne	ew breakout or	urgent support
8. Division Communications				Phone	Radio Ch
Operations Manager					Fire 1/Cellphone
Air Division Commander					Fire 4/Cellphone
15. Prepared By:				Date/Time	2 10/2/19 1900hrs

/2019 0700 ne Assign- ment	Affiliatio  Tactical Freq/Chan  Fire 4	on Name	Phone	RF2  Radio Chan  Telephone Numbers
ne Assign-	Tactical Freq/Chan		Phone	Telephone
- Assign-	Tactical Freq/Chan		Phone	Telephone
- Assign-	Tactical Freq/Chan		Phone	Telephone
	Freq/Chan Fire 4	Name		
	Freq/Chan Fire 4	Name		
	Freq/Chan Fire 4	Name		
	Freq/Chan Fire 4	Name		
	Freq/Chan Fire 4	Name		
	Freq/Chan Fire 4	Name	.40	
	Freq/Chan Fire 4	Name	~	
	Freq/Chan Fire 4			
	Fire 1			
	11164			
	Fine 4			
	Fire 4			
		<i>y</i>		
		Grid Refe	erence	
-41.317	777, 137.10987	7		
	9.9 S 173 05 04	.6 E		
Limitations				
nt to 30m nerial map bef night	fore sunset			
С	Date/Time: 10/2/19 1900hrs			
r	41 22 39  Limitations  Int to 30m  erial map be hight	41 22 39.9 \$ 173 05 04  Limitations  Int to 30m  erial map before sunset hight	-41.31777, 137.10987 41 22 39.9 \$ 173 05 04.6 E  Limitations  nt to 30m erial map before sunset night	-41.31777, 137.10987  41 22 39.9 \$ 173 05 04.6 E  Limitations  Int to 30m  Perial map before sunset hight

1. Incident Name Pigeon Valley		2. Operational Date 10&11/2/	2019	COMMUNICATIONS PLAN		
3. Radio Channels		Time 1900 – 07	700	RF20		
Assigned To	Function	Channel	Frequency	System		
Command		Waimea 1	152.55000 RX			
			154.33125 TX			
Division Alpha	Operational	Fire 1	143.8250	0		
Division Zulu	Operational	Fire 2	143.7875	0		
Division Yankie	Operational	Fire 3	140.9250	0		
Division Xray	Operational	Fire 1	143.8250	0		
Division Bravo	Operational	Fire 2	143.7875	0		
Air Ops -Heli	Operational	Fire 4	140.6125	0		
Air Ops – Fixed Wing	Operational	Fire 10	140.9875	0		
Emergency		Waimea 1	152.55000 RX			
			154.33125 TX			
Resources		Waimea 1	152.55000 RX			
FireCom		FireCom	154.33125 TX			
2 Hourly - Sitrep		OPSR2	Use mobile if di	l fficult coms to FCP		
4. Telephone		OI SILE	Ose mobile ii di	Thealt coms to I er		
Assigned To	Landline	Cell phone	Fax	Comments		
Emergency		111				
Regional Command Centre (RCC)	<b>*</b>					
6. Other (e.g. email, Sa	phone, etc)		1			
Resources	resources@FEN	NZNelsonIMT.com	1			
Safety	safety@FENZN	elsonIMT.com				
Logistics	logistics@FENZ	NelsonIMT.com				
PIM	pim@FENZNels	sonIMT.com				
Planning	planning@FEN	ZNelsonIMT.com				
Forward Control Point (FCP)	icu.nelson@fire	eemergency.nz				
Situation / GIS / Intel	situation@FEN	ZNelsonIMT.com				
Operations	operations@FE	NZNelsonIMT.co	<u>m</u>			
Photos and imagery	Join Facebook	site; Pigeon Vall MMS	-	https://www.facebook.com/ groups/1924082991035550/		
6. Prepared by:	<u>'                                      </u>			Date/Time 10/2/19 1900hrs		

1. Incident Name	2. Operational Period	SAFETY PLAN
Pigeon Valley	Date 9&10/2/2019	SAFLITFLAN
	Time 1900 - 0700	RF20
3. General Safety Poir	nts	
Everyone is to be signed in payment records (Comple		e Incident Control Point for both safety check and
Maintain regular situatior supervisors.	ı reports especially kestrel observations	s (containing all relevant information) via line
LACES	Fire Orders	Watchouts
<b>L</b> - Lookout(s)	1. conditions and forecasts	1. Fire size is unknown (no size up).
A – Awareness	2. Know what your fire is doing at	<ul><li>2. Unfamiliar territory</li><li>3. Safety zones and escape routes not identified.</li></ul>
1 Tiwareness	all times.  3. Base all actions on current and	<ul><li>3. Safety zones and escape routes not identified.</li><li>4. Unfamiliar with weather and local factors</li></ul>
<ul><li>Anchor Point(s)</li></ul>	5. Dase all actions on current and	
<ul><li>Anchor Point(s)</li><li>C – Communication(s)</li></ul>	expected fire behaviour of the fire.	<ul><li>influencing fire behaviour.</li><li>5. No communications link with crew members</li></ul>

6. Instructions and assignments not clear.

humidity dropping

11. Working on a steep slope 12. Working in rugged terrain

13. Can't see main fire

16. Working alone

17. Getting tired

14. In unburnt vegetation

15. Walking through hot ashes

18. Working near power lines

19. Working near machinery

21. Working around trees or spars

20. Working with aircraft

7. Weather is getting hotter, drier and relative

8. Wind increases and/or changes direction.

9. Getting frequent spot fires across the line

10. Working uphill or down wind of a fire

5. **Post** lookouts when there is

clearly, act decisively.

possible danger.

7. Maintain prompt

adjoining crews.

known.

S – Safety Zone(s)

safety zones and make them

Stay alert. Keep calm, Think

communication with your

8. Give clear instructions and

Maintain control of your

crew/s at all times.

crew/s, your supervisor and

ensure they are understood.

10. Fight fire aggressively having

provided for safety first.

# 4. Specific Safety Points

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

<u> </u>	0	W .		
5. Prepared By:				<b>Date/Time</b> 10/2/19 1900hrs

1. Incident Name		2. Operatio	nal Pe		MEDICAL				
Pigeon Valley		Date 10&11	/2/20		PLAN				
		Time 1900 -	- 0700			RF206			
3. First Aid Station Name	Loc	ation		one/Radio nannel		Paramedics available at Station			
Each Crew must have available one First aid Level 1 Certified	Each cre	w						P	
Nelson 91 Ambulance		Forward command post		Waimea 1 1 I		1 Paramedic and 1 EMT			
				χ(	3/				
4. Transportation  Ambulance Service	Add	dress		one/Radio nannel	Paramedics available with Ambulance				
Ambulance St Johns	Closest (	unit	111		Yes				
5. Hospitals  Hospital Name	Addres	s Ph	one	Road	'	el Time Air	Burn Unit	Heli Pad	
Nelson Public Emergency	Waimea F	Rd. 111		27m		4min	У	У	
Hutt Hospital (Burn Unit)		111		n/a	2	10min	Υ	У	
6. Special Emergency Procedur St John will transport patients t		r health facil	ity is a	ppropriate	<u> </u>				
7. Prepared By:	Shift - M	lanager Nelso	on	Date/Tim	e 10/	2/19 190	00hrs		

**Date/Time** 10/2/19 1900hrs

8. Reviewed by Safety Advisor:

1. Incident Name
2. Operational Period
SHORT RANGE
Pigeon Valley
Date 10&11/2/2019
Time 1900 – 0700

2. Description of the first of the second of the second

3. Download Avenza PDF Maps, Scan the Following Codes to Access Digital Maps

# 4 pm Sunday – 6 am Monday

Rainfall: None expected

Sustained wind: Currently around 20 km/h NE. Will gradually decrease and turn SW by

11pm, 10 km/h or less overnight.

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

**Temperature:** Decreasing to near 13°C early morning. **Humidity:** 60% and increasing to near 95% after midnight.

# 6 am - 6 pm Monday

Rainfall: None expected

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

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

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

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

# **Outlook for Tuesday**

Rainfall: Light showers possible but unlikely

Sustained winds: SW up to 10 km/h in the morning turning NE by 10am, increasing to up

to 15 km/h by mid arvo. Winds turn SW again ~ 6pm due to frontal passage

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

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

Humidity: Morning max 95%, afternoon min 50%

# Outlook for Wednesday

Rainfall: None expected.

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

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

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

Humidity: Morning max 85%, afternoon min 50%

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

#### **General Weather Overview**

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

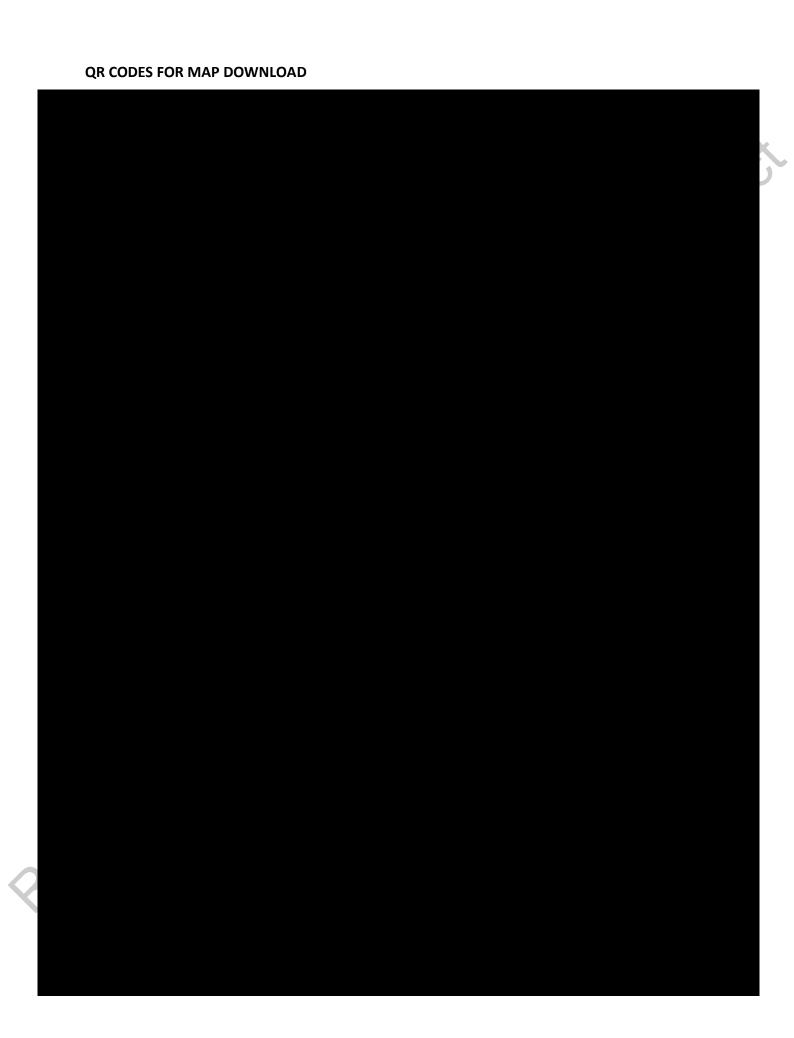
Tomorrow Cloud increasing through the day and NE winds dying out. RH reaching 50% mid afternoon and temperatures 23-25. Wind 20km with gusts to 40km

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

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

	Specific Fire Behaviour					
	Forecast ROS/ Height (No	Peak ROS / Flame				
Fuel Type	Suppression)	height				
Mature Pine	185m/hr 3.1m	3,000m/hr 11m				
Grass (GC80%,H 0.1m,C100%)	760m/hr 1.6m	7,0000m/hr 4.5m				
Specific Notes						

Good opportunities for ground crew mop up through the morning. As the afternoon weather develops the ground crew mop up will become limited and the need for heavy equipment and air support will increase. 6/69/269





Released under the Official International Property of the

**1. Incident Name** Date 10&11/2/2019

Pigeon Valley Fire, Nelson Time 1900 – 0700

# **Public Information Management Plan**

# Overview of PIM response

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

The overall PIM team is increasing personnel numbers.

# NIMT PIM team – for Sunday 10th February

PIM FENZ Manager –	
PIM Liaison –	
Media Officer –	
PIM Support –	
Social Media Manager, Community Liaison, Eva	ac/Alerts – Civil Defence

The PIM Team roster is available from NIMT Logistics Manager.

# PIM meetings:

Ops Briefing 0700hrs
Media Briefing #1 0830hrs

Planning Meeting #1 0900hrs - to be confirmed

Tactics Meeting 1100hrs

Media Briefing #2 1600hrs – to be confirmed

Planning Meeting #2 1700hrs

# **Key Messages:**

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

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

# **FENZ Stakeholders and Audience Groups**

Organisation	Detail	Name	Contact Info
FENZ Org (forward system to ELT, NCC, OCE and Board)	Requires regular updates – committed to 4x updates daily at 0830hrs, 1100hrs, 1500hrs and 1830hrs. Additionally a phone call every hour	RCC Christchurch	RCC R4 & R2, NCC, , Nelson Tasman CD Planning & Intel, NIMT Situation Unit, Comms Team
Evacuated Residents	Community Meeting – next one on Monday 11 <sup>th</sup> Feb @ 5.30pm, Appleby School.	Various	Comms through social media, Civil Defence website, welfare team and media.
Interested Public	Local community (not evacuated) and wider	Various	Social media posts, Civil Defence website, FENZ website, media outlets
Cordons	Managed by Police, kept updated via PIM team	O <sub>III</sub>	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 is: Nelson Tasman Civil Defence facebook page				
	Fire and Emergency NZ facebook page				
	Tasman-Malborough Fire Area facebook page				
	.0				
Helpline	Welfare Helpline – 03 543 8400				
Information points	Cordons (located as per map)				
Community contacts/meetings	Community Meeting Monday 11 <sup>th</sup> February – details TBC.				
Media message distribution	Specific stations or publications				
Radio	*See media list				
TV					
Newspapers					
Media	Schedule				
Media briefing/conferences	Media Stand Up at 0830hrs.				
	Media Stand Up at 1600hrs.				
	2 hourly Media Releases				
Media site visits					
Interviews	Regular interviews with FENZ personnel				

# Message monitoring

Messaging is being monitored by Civil Defence PIM Team and dealt with / passed on accordingly. FENZ PIM team are supporting for Media management and FENZ / Operational information requiring to be gathered and shared.

Prepared	by:		Date:	10/2/19 1900hrs

Sector		Fire loca	tion				Sign	ed			
Supervisor	rs	S-Super\	/isor				Sect				
-	٦	name			•			e/Loc	ation		
Report		Shift Sta	rt	Date			Shift	Start		Date	
(to be				Time						Time	
completed	.										
following shift		-4									
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Crew			r	No. Crew	Equipmen Radios	t use		ew su	H-To		Othan
Name/Compa	пу	Name		Crew	Radios		C-saw		H-10	OIS	Other
	-										
Equipment us		on the se	ctor	<u> </u>						7,5	
Equipment us	ea (		LLOF		hrs		A cours!	to 1	_4	11	hrs
Pumps		Wajax 1 Wajax 2			hrs		Acquali Watero		4	*	hrs
(hrs for each		Wajax 2			hrs		No Dan		4		1112
pump)		Wajax 3			hrs		NO Dall	13 036			
Hose Lengths		25mm			41mm				70m	m	
nose Lengths		4lengths	-1nk		3lengths=	1nk			70111	111	
Suppressants		Foam	,- <u>-</u>		Litres	+ hν			Soan	Сар	
Fire Appliance	es U		e sect	or	Lities				ССССР	Cap	<u> </u>
Registration	Ту		Driver na			Hou	urly	Othe	r Com	ments	
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Incident Name	Operational Per	riod IAP COVER SHEET
Pigeon Valley	Date 11/2/2019	
	Time 0700 - 190	
		RF199
	INCIDENT AC	CTION PLAN
Th	e items checked below are incl	luded in the incident Action Plan
SITUATION	ON REPORT	
I <del></del>	IT OBJECTIVES	
	SATIONAL LIST	
	ASSIGNMENT	
	NAL ASSIGNMENT	
I=	RATIONS PLAN	
I=	JNICATION PLAN	
SAFETY		
MEDICA		
FIRE MA		
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	INFORMATION & M	
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Approved by Inc	ident Controller: Signed	.Date/Time
Name Name		2000 110/2/19
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00,		FIRE
		MERGENCY



1. Incident Name	2. Operational Period	SITUATION
Pigeon Valley	Date 11/2/2019	REPORT
	Time 0700 - 1900	RF201
3. Location	4. Vegetation	5. World Grid Scale 84.
Pigeon Rd, Eves Valley,	Forest/Scrub/Grass/Slash/	41°22'32.51"S
Tasman	Other:	173° 1'31.81"E

#### Latest information as at 1800 10/2/2019:

During the afternoon winds were gusting to 35km in exposed areas. The controlled burn was completed by 1530Hrs and crew patrols and monitoring are as the initiative scales down. The risk of toppling trees within the fireground is being addressed with 8 danger tree assessors sourced from local forestry crews working in pairs and distributed across the sectors. In ZULU sector above Wakefield the control lines were widened extensively with trees removed and taken away from the area. Plans for continued firebreaking work through the nightshift are in place. During the evening 3 drone crew's will be deployed initially tasked with assessing properties and assets with a view to increasing the likelihood of their owners return. They will then survey and assess the perimeter for hot spots to provide direction to ground operations for Monday. Air operations will assess the work program early tomorrow with a view to dropping equipment out of the operation should there not be adequate work. At the Atawhai strong northerlies prevailed through the afternoon.

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

Current resources working on the vegetation fire (day 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.

#### 6. Assessment

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

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

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

Values at risk are life, and property.

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

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

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

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

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

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

#### 7. Action taken

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

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

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

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

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

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

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

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

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

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

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

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

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

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

#### 8. Factors

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

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

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

# 9. Predicted Incident Development

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

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

10. Prepared by:	Date/Time:	
Authorised by	(Incident Controller) 1800hrs 10th Feb 2019	
	*We	
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60		

1. Incident Name	2. Operational Period	INCIDENT
Pigeon Valley	Date 11/2/2019	OBJECTIVES
	Time 0700 - 1900	RF202

# 3. Overall Incident Objectives

- 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

- 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.
  - Consider operation delivery to minimise impacts in support of the recovery plan.

Specific operational tasks for this shift to meet objectives

- Crew blacking out to 30m in 10m increments
- Patrol, and monitor all fire edges, focusing on prescribed burn in Zulu 1 and Eder and Cuthill roads
- Urban appliances tasked for protection of identified structures and assets including cell phone towers, dairy farms and structures in Drones Rd, Teapot Valley, Pigeon Valley and Mill.
- Heavy Machinery to create and strengthen firebreaks focusing on Heine's and Foxes
   Rd. New breaks on Golf Rd linkages
- Tree Felling around Mill safe to do so
- Initial Attack crew on standby from FOP
- Aircraft to support ground operations

5.	Prepared by:	Date/Time: 1900 8/2/19
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	1. Incident Name	2. Operational Period		ORGANISATION
		Date 11/2/2019		ASSIGNMENT
		Time 0700 - 1900		RF203
·	3. Incident Control	_	Phone	Radio Ch
	Incident Controller	(NIMT)		
	Deputy IC			
	Information Officer			
	Safety Officer	(NMIT)		
	Liaison Officer			<i>\$10</i>
	4. Agency Representative		Phone	Radio Ch
	Lead Agency	FENZ		
	Agency	Police		
	Agency			
	Agency			
	Agency	CDEM Duty Phone		
	Agency	FENZ Urban Liason		
	5. Planning/Intell Section		Phone	Radio Ch
	Planning/Intell Manager			
	.Situations Unit			
		_		
		_		
		2		
	76	<u>)</u>		
		_		
		_		
		_		
		_		
		_		
	2.0	_		
	Resources Unit	_		
20		_		
	Management Support Unit			
	Information Unit			
	Advance Planning Unit			
	Fire investigation			

6. Logistics Section		Phone	Radio
Logistics Manager	(NMIT)		
Supply Unit			
		30303030	
<u> </u>			
Catering Unit			
Facilities Unit			
Finance Unit			
Communications Unit			
Medical Unit			
7. Operations Section		Phone	Radi
Operations Manager			
Deputy Ops Manager			
Ops planning Manager			
Division Alpha			
Division Xray			
Division Yankee			
Division Zulu			
Division Atawhai			
Air Division Commander			
Air Attack Supervisor			
Air Attack Supervisor(Trainee)			
Air Support Supervisor			
2.0			
8. Prepared by:		Date/Time:	1900 10/2

-	1. Incident Name			2. Operational Period			DIVISION		
	Pigeon Valley			Date 11/2/2019			ASSIGNMENT		
				Time 0	700 - 1900		RF204a		
	3. Division			4. Desc	ription				
	Alpha			Point o	f ignition to	Dove Saddle	on Eder Rd		
	5. Division Commander	Affili	ation		Phone		Radio Ch		
							Command: Fire		
	C. Dana and Andread Helia D						Crew: Simplex		
	6. Resources Assigned this Posterior	erioa 		Super	visor	Crews	s Radio Ch		
	Bulldozer D7		TLC						
	Excavator 20 T		TLC						
	JNL + 4 PX					60			
	Ngatimoti 5325 Smoke Chase	r +2			•				
	Doc Hauraki 5px								
	Rai Silviculture 16px				.0				
	Tasman 2 tanker								
	DOC S. Canterbury 8px								
	Dangerous Tree Assessor 4px								
	Dozer to continue to wide Smoke chaser and crews be possible and safe. Structure protection in Sha2 Push new line down Eder R down to A1/A2 boundary Mop up with ground crews  DTA – Assess, mark and gps a within 60m of roads and 60m  Helicopters to support ground request  Alpha 1 - Div break to Ford of Alpha 2 – From ford on Sharp  8. Division Communications	arps R d to 6. from y all haza from d crev	d Valled Skm max yesterd ardous the bla ws. Divi	y area ark then ays burr tress wit ck edge	down the process to down t	rominent ridg rly focus arou ead of ground o call Air Atta	te to Forestry Rd and und structures and crews.  The concine of th		
	Operations Manager						Fire 1/Cellphone		
	Air Division Commander						Fire 4/Cellphone		
	9. Prepared By:					Date/Time	e 1900 10/2/19		

	1. Incident Name Pigeon Valley			<b>2. Operational Period</b> Date11/2/2019  Time 0700 - 1900			DIVISIO ASSIGNMEN		
•	3. Division			4. Desc	ription			111 20 10	
	Xray			Divisio	n from Cut hi	ll Johnsons Ro	d to CHH s	saw mill	
	5. Division Commander	Affili	iation		Phone		Radio Ch		
							Fire 5		
	6. Resources Assigned this P	eriod							
	Sector		•	Super	visor	Crews		Radio Ch	
	DOC Blenheim - USA 1 12px								
	D155 Dozer						70		
	Nicholson Tanker		13,000	) L					
	Excavators x4								
	Appleby Tanker					X			
	Smoke Chaser Wainui 3px								
	NZDF RFA x7px								
	Invercargill Crew + 5 PX				10				
	Otago Crew + 5 PX		G(C)						
	Wainui 9572 5px								
	Dangerous Tree Assessor 4px	(							
	X1 Mop up with ground crev Rd to Moutere saddle and X2 Check and enhance perin X3 Monitor only, no operatio  DTA – Assess, mark and gps a within 60m of roads and 60m  Helicopters to support groun VHF 4 with requirements  Xray 1 – Cuthill/Johnsons Re Xray 2 - 5423000/1603000 t Xray 3 - Redwood Valley Rd	neter a ons requall haza of from d open ed inter o inter	on Joh around uired a ardous the bla rations	nsons Rostructur t this states with tress are tress with tress are tress with tress are tress	d if required es. Ground crage. The particular To work ahe red. Division iv break) to 5 wood Valley I	rly focus around of ground Commanders 423000/1603	ind struction crews.	trol. ures and	
7	8. Division Communications					Phone		Radio Ch	
	Operations Manager					, none		re 1/Cellphone	
	Air Division Commander							re 4/Cellphone	
	10. Prepared By:					Date/Time		•	

	1. Incident Name Pigeon Valley			2. Operational Period Date 11/2/2019 Time 0700 - 1900				DIVISION GNMENT RF204a
	3. Division			4. Desc	ription			111 20 10
	Yankee			Benne	s Road to CHI	H saw mill at	Eves Valle	у
	5. Division Commander	Affili	ation		Phone		Radio Ch	(
•		Wake	efield V	′FB			Fire 3	
	6. Resources Assigned this Po	eriod						0
	Sector	Í		Super	visor	Crews	5	Radio Ch
•	2x Excavator 20T		Taylor				X	
	Bulldozer D8		Taylor	·S				
	Brightwater 5026 + 4px							
	Rural Tanker Downers + 1px							
	Brightwater 5071 + 3px					&O		
	Wanuiomata 441 5px							
	Richmond 331 4x							
	Ngatimoti 5375 + 4px				. (2)	•		
	Wellington 2 + 5 PX							
	West Coast 8 PX And Smoke			S				
	Chaser and Tanker	,						
	Dangerous Tree Assessor 4px Y1 Push fire line in from Eder		nd cont	inue to v	widen Eder Ro	<u> </u> 		
	Monitor existing fire break		~6					
	Y2 Continue felling Eucalypto	us tree	s arour	nd Eves '	Valley Mill			
	Protect Mill and surround	ling str	ucture	S				
	X							
	Helicopters to support groun	d oper	ations	as requi	red. Division (	Commanders	to call Air	attack on
	VHF 4 with requirements							
	<b>DTA –</b> Assess, mark and gps a within 60m of roads and 60m  Yankee 1 – South edge of mi	n from	the bla	ick edge		ly focus arou	ınd structu	res and
	Yankee 2 – Xray div break to							
20	8. Division Communications					Phone	•	Radio Ch
	Operations Manager						ĺ	e 1/Cellphone
	Air Division Commander							e 4/Cellphone
	11. Prepared By:					Date/Time		•

	<b>Incident Name</b> Pigeon Valley	2. Operational Period Date 11/2/2019 Time 0700 - 1900	DIVISION ASSIGNMENT RF204a					
3	. Division		4. Description					
Z	ulu			Point of ignition to C	CHH saw mill			
5	. Division Commander	Affili	ation	Phone		Radio Ch		
		3,5			<u> </u>	Fire 2		
6	. Resources Assigned this I	Period				11102		
	Sector			Supervisor	Crews	5	Radio Ch	
4	x Excavator 20T		TLC	•				
D	D65 Dozer					7.0		
V	Vatertanker							
	Pumicelands 7px				40			
	-				XO			
	outh Canterbury 10px							
_	ake Rotoiti + 4 PX Jewlands 291 4px							
	IZDF RFA 3px			• 🕠				
	Vellington 1 + 5 PX							
	uckland 1 5px			, C\O'				
	apawera 4wd tanker							
	Dangerous Tree Assessor 4p	Х						
Z	1 Protection of cell tower	with air	craft o	nly				
	Maintain mobility in this				ce chasers, 4	wd tanker	s). Prioritise	
	this area due to large nur							
	Strengthen vegetation be the North to the road nea					ery yard ai	nd continue to	
	the North to the road hea	ii tiic si	illali bi	luge across dry creek.				
7	Z2 Check access into and pe	trol Mo	Calls, 1	Tea Pot Valley and Ber	nnits Roads.			
	Protection of dairy farm			· · · · · · · · · · · · · · · · · · ·				
	Ground crews continue t	•	•		_			
	Protection of structures	near to	p of Dr	ones by extending def	fensible spac	e.		
	OTA - Accord mark and and	all bazz	ordous	tross with a particular	ly focus area	ind struct	uros and	
	OTA – Assess, mark and gps within 60m of roads and			•	•			
	THE STATE OF TOURS AND			J.Son Cage, 10 Work a			-	
-	lelicopters to support grou	nd oper	ations	as required. Division (	Commanders	to call Ai	r attack on	
K	VHF 4 with requirements							
١ [ز	zolo a Alado de la Leia	4	_					
	Zulu 1 – Alpha div break to Baı Zulu 2 – Barton lane to Yanl							
	<b>3. Division Communications</b>		orcan.		Phone	<u> </u>	Radio Ch	
	Operations Manager					1	re 1/Cellphone	
	Air Division Commander						re 4/Cellphone	
					Det : /=:			
1	2. Prepared By:				Date/Time	<b>1</b> 900 10/	2/19	

1. Incident Name Pigeon Valley			2. Operational Period  Date 11/2/2019  Time 0700 - 1900			A	DIVISION ASSIGNMENT		
3. Division Atawhai			4. Descr	ription			NF21		
5. Division Command	der A	Affiliation		Phone		Radio	o Ch		
	F	ENZ							
6. Resources Assigne Sector	d this Peri	iod 	Superv	isor	Crews	s	Radio Ch		
Hawkes Bay Crew – 5	рх						0		
716 smoke chaser									
Dangerous Tree Asses	ssor 2px				(())	<u> </u>			
7. Division Assignme Ground crews continu	ue to mop	up and bla	acken out.	ICIS)					
	ue to mop will need t nd gps all	up and blato be dug of hazardous	acken out. out. tress with		ly focus arou	und stru	uctures and		
Deeper seated spots of DTA – Assess, mark a within 60m of roads a	ue to mop will need to and gps all and 60m for	up and blato be dug of hazardous	acken out. out. tress with		ly focus arou		uctures and  Radio Ch		
Deeper seated spots of DTA – Assess, mark a within 60m of roads a	ue to mop will need to and gps all and 60m for	up and blato be dug of hazardous	acken out. out. tress with						

	1. Incident Name Pigeon Valley	2. Operational Period  Date 11/2/2019  Time 0700 - 1900			AS	DIVISION ASSIGNMENT RF204a		
	3. Division		4. Des	cription			111 20 10	
	Structure protection		Function	onal division a	cross Pigeor	ı Valley	Incident	
	5. Division Commander	Affiliation		Phone		Radio	Ch Ch	
	6. Resources Assigned this P Sector	eriod	Super	visor	Crew	s	Radio Ch	
	Nelson 212 4px							
	Nelson 213 4px							
	Takaka 391 4px							
	Nelson 2118 2px  2 excitative offices				<u> </u>			
	requested from logi <ul> <li>Any activities within geographical divisio</li> <li>Urban division also</li> </ul> <li>NB Additional resources are</li>	geographica n commande responsible f	er for adequ	ate rotation a	nd replenish			
	8. Division Communications	,			Phone	<b>:</b>	Radio Ch	
	Operations Manager  Air Division Commander						Fire 1/Cellphone Fire 4/Cellphone	
	14. Prepared By:				Date/Time	1900	_	
20	The state of the s						, <b>-</b> ,	

Pigeon Valley	<b>2. Operational Peri</b> Date 11/2/2019 Time 0700 - 1900	DIVISION ASSIGNMENT RF204a		
<b>3. Division</b> Initial Attack		<b>4. Description</b> Functional division	across Pigeon	-
5. Division Commander	Affiliation	Phone		Radio Ch
6. Resources Assigned this Sector	Period	Supervisor	Crews	s Radio Ch
<ul><li>7. Division Assignment/Sp</li><li>Be available at FC required</li></ul>		ns e response to any nev	w breakout or	urgent support
<ul> <li>Be available at FC</li> </ul>			w breakout or	urgent support
Be available at FC required  8. Division Communication	P for immediate		w breakout or	Radio Ch
Be available at FC required	P for immediate			

1. Incident Name Pigeon Valley	<b>2. Operational Pe</b> Date 11/2/2019 Time 0700 - 1900	DIVISION ASSIGNMENT RF204a		
3. Division		4. Description		1(1 204a
Property Assessments		Functional division	n across Pigeon	Valley Incident
5. Division Commander	Affiliation	Phone		Radio Ch
6. Resources Assigned this F Sector		Supervisor	Crews	Radio Ch
	FENZ	Liaison		
			<u> </u>	
and built structures weather. 2. The assessments w required.	s. These will b ill include sta tions will be r	e reviewed in relation	on to incident s	nding flammable fuels tatues and predicted cialist contractors as ers at all times when on
y Ung				
8. Division Communications			Phone	ĺ
y nugg			Phone	Radio Ch Fire 1/Cellphone Fire 4/Cellphone

1. Incident Name Pigeon Valley	2. Operationa		Date 11/2/2019 Time 0700 - 1900	AIR OPERATIONS PLAN RF208
3. Personnel and Communication	ons Name	Affiliation	n Phone	Radio Chân
Air Div Commander	Name	Allillation	Phone	Radio Chan
Air Attack Supervisor				Fire 4
Air Attack Supervisor(Trainee)				
Air Support Supervisor				
Lead Helicopter Pilot				
Lead Fixed-Wing Pilot			(2)	
5. Location of Filling Points/Serv Name	vice Areas		Gr	rid Reference
Heli base		-41.31777, 137.10987		
Fixed wing	4	1 22 39.9 S 173 05 04.6	S E	
6. Safety Notes / Hazards / Radi	io Coverage Limita	ations		
<ul> <li>7. Air Operations Special Equip of Retardent filling crew (Fig. 1)</li> <li>Bryant Earthworks - 2x dip trucks</li> <li>1x dip truck and tra</li> <li>5x support tankers</li> </ul>	Fixed Wing) -	nuge		
8. Prepared By:	~0	Date/Time: 1900	0 8/2/19	
20/9	33.50			

Company Name	Aircraft Type	Rego/Call Sign	Pilots Name	Bucket Size	Contact Number	Availability
Rotoary	7 incruit Type	3.6.1	Thota Humo	Ducket Size	Trumber	Attunuonity
Beck's	UH-1	HHF		1500L •		Available
Docks	UH-1	ННВ		1500L		Available
Helicharter	500D	HXX		500L		Available
Garden City Heli	B3	IHL		1100L		Available
	EC130	IGF		1000L		Available
	ВК	IVB		1100L		Available
Reid Heli	B2	HPE		900L		Available
	FX2	HEX		1000L		Available
	B2	НАА		1000L		Available
	B2	IOR		Platform		Available
Southern Heli Lift	UH-1L	HUE		1500L		Available
Marlborough Heli	Long Ranger	HTA		650L		Available
Skyworks	B3	HWW		1050L		Available
Amuri Heli	FX2	НЈМ		1000L		Available
Anderson	B2	НКА		1000L		Available
Independent Heli	EC130	IWS		1000L		Available
Christchurch Heli	B2	HNC		1000L		Available
Wanaka Heli	B2	HFF		1000L		Available
Mt Hutt Heli	BA	HYS		700L		Relief Aircraft
	BA	HDQ		7001		Available
Heliventures	B2	IER		1000L		Available
Murchison Heli	BA	ILW		680L/Platform		Available
Wellington Heli	EC130	IWN		880L		14hrs remaining
Fixed Wing						
	Cresco					Available
	Airtractor	<b>A</b>				Available
Drone						
Interpine	RPRS/UAV	PINES1				
Interpine	RPRS/UAV	PINES2				
USAR	RPRS/UAV	PINES2				

1. Incident Name Pigeon Valley		2. Operational Date 11/2/201		COMMUNICATIONS			
		Time 0700 - 19	00	RF205			
3. Radio Channel  Assigned To		Channel	Frequency	System			
Command		Waimea 1	152.55000 RX	,			
			154.33125 TX				
Division Alpha	Operational	Fire 1	143.8250	0			
Division Zulu	Operational	Fire 2	143.7875	0			
Division Yankee	Operational	Fire 3	140.9250	0			
Division Xray	Operational	Fire 1	143.8250	0			
Air Ops -Heli	Operational	Fire 4	140.6125	0			
Air Ops – Fixed W	ing Operational	Fire 10	140.9875	0			
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 di	fficult coms to FCP			
4. Telephone  Assigned To	Landline	Cell phone	Fax	Comments			
Emergency		111					
Regional Commo	and						
6. Other (e.g. em	ail, Satphone, etc)		1				
Resources	<u>resources@FI</u>	ENZNelsonIMT.com	1				
Safety	safety@FENZ	NelsonIMT.com					
Logistics	logistics@FEN	IZNelsonIMT.com					
PIM	pim@FENZNe	elsonIMT.com					
Planning	planning@FEI	NZNelsonIMT.com					
Forward Control F	Point ( <u>icu.nelson@fi</u>	reemergency.nz					
FCP)		NIZNIAISANINAT SAM					
	ntel <u>situation@FE</u>	NZNeisoniivi i .com					
FCP)	-	FENZNelsonIMT.com	<u>m</u>				
FCP) Situation / GIS / II	operations@F	FENZNelsonIMT.co	ey Fire - <u>h</u>	ttps://www.facebook.com/ roups/1924082991035550/			

1. Incident Name	2. Operational Period	SAFETY PLAN					
Pigeon Valley	Date 11/2/2019						
	Time 0700 - 1900	RF209					
3. General Safety Points							
Everyone is to be signed	in and out of the fire ground through the Incident	Control Point for both safety check and					

payment records (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> <li>conditions and forecasts</li> <li>Know what your fire is doing at all times.</li> <li>Base all actions on current and expected fire behaviour of the fire.</li> <li>Identify escape routes and safety zones and make them known.</li> <li>Post lookouts when there is possible danger.</li> <li>Stay alert. Keep calm, Think clearly, act decisively.</li> <li>Maintain prompt communication with your crew/s, your supervisor and adjoining crews.</li> <li>Give clear instructions and ensure they are understood.</li> <li>Maintain control of your crew/s at all times.</li> <li>Fight fire aggressively having provided for safety first.</li> </ol>	<ol> <li>Fire size is unknown (no size up).</li> <li>Unfamiliar territory</li> <li>Safety zones and escape routes not identified.</li> <li>Unfamiliar with weather and local factors influencing fire behaviour.</li> <li>No communications link with crew members or supervisor.</li> <li>Instructions and assignments not clear.</li> <li>Weather is getting hotter, drier and relative humidity dropping</li> <li>Wind increases and/or changes direction.</li> <li>Getting frequent spot fires across the line</li> <li>Working uphill or down wind of a fire</li> <li>Working in rugged terrain</li> <li>Can't see main fire</li> <li>In unburnt vegetation</li> <li>Walking through hot ashes</li> <li>Working alone</li> <li>Getting tired</li> <li>Working near power lines</li> <li>Working with aircraft</li> <li>Working with aircraft</li> <li>Working around trees or spars</li> </ol>

### 4. Specific Safety Points

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

5. Prepared By:		X		Date/Time 1900 9/2/19

1. Incident Name Pigeon Valley	2. Operation Date 11/2/2	019		MEDICAL PLAN				
3. First Aid Station Name		Time 0700 - 19		e/Radio nnel		Paramedics available at Station		
Each Crew must have available one First aid Level 1 Certified	Each crev	N				<u>,:\C</u>		
Nelson 91 Ambulance	Forward comman	d post	Waime	ea 1	1 Paramedic	and 1 E	MT	
					(0)			
4. Transportation  Ambulance Service	Ada	lress	Phone Chan	e/Radio inel	Paran available wi		ulance	
Ambulance St Johns	Closest u	nit	111		Yes			
5. Hospitals Hospital Name	Address	S Ph	one	Road	<u>Travel Time</u> Air	Burn Unit	Heli Pad	
Nelson Public Emergency	Waimea R	d. 111		27m	4min	У	У	
Hutt Hospital (Burn Unit)		111		n/a	40min	Υ	У	
6. Special Emergency Procedur St John will transport patients t		r health facili	ty is app	ropriate				

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

## 4 pm Sunday – 6 am Monday

Rainfall: None expected

Sustained wind: Currently around 20 km/h NE. Will gradually decrease and turn SW by

11pm, 10 km/h or less overnight.

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

**Temperature:** Decreasing to near 13°C early morning. **Humidity:** 60% and increasing to near 95% after midnight.

### 6 am – 6 pm Monday

Rainfall: None expected

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

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

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

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

# **Outlook for Tuesday**

Rainfall: Light showers possible but unlikely

Sustained winds: SW up to 10 km/h in the morning turning NE by 10am, increasing to up

to 15 km/h by mid arvo. Winds turn SW again ~ 6pm due to frontal passage

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

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

Humidity: Morning max 95%, afternoon min 50%

# **Outlook for Wednesday**

Rainfall: None expected.

Sustained winds: W-SW, ~ 10km/ in the morning. Turning NE by mid-day and increasing

to up to 15 km/h by late arvo.

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

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

Humidity: Morning max 85%, afternoon min 50%

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

#### **General Weather Overview**

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

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

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

### General Fire Behaviour

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

Specific Fire Behaviour				
Fuel Type	Forecast ROS/ Height (No Suppression)	Peak ROS / Flame height		
Mature Pine	185m/hr 3.1m	3,000m/hr 11m		
Grass (GC80%,H 0.1m,C100%)	760m/hr 1.6m	7,0000m/hr 4.5m		
Specific Notes				

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

6/6926

RF201a

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

