

Incident Name:

Operational Period:

Pukaki Downs Fire

0700 – 1800 1/09/20

Incident Action Plan

The items below are included in the incident Action Plan

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Approved by Incident

Controller:

Signed:

Date/Time:

Rob Hands		31/8/20
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Situation Report

RF201

3. Location	4. Incident Type	5. NZ Topo50 Grid Ref/Address
SH80, Pukaki	Vegetation Fire - Forest/Scrub/Grass/Slash	Approx. point of ignition: E 1365102 N 5107856
<p>6. Assessment</p> <p>Started 1125 in the vicinity of the confluence of the Gladstone and Twizel Rivers along Baikie Hut Track. Driven by strong Norwest winds through tussock and extensive area of wilding trees. Patchy areas within fire zone remaining unburnt.</p> <p>A wide range of fuel types within the existing fire perimeter have been consumed.</p> <p>There are 8 significant residential properties, with multiple structures, affected on the East side of SH80. One house has been lost, along with a barn and four small outbuildings. Currently carrying out property protection on the remaining properties, to be continued by nightshift. Air resources working on perimeter of fire and supporting property protection.</p> <p>Pukaki Scientific Reserve has been extensively damaged.</p> <p>The fire perimeter as at 1900 31/08/20 is approximately 31km and total area of incident ground is 2,951ha.</p>		
<p>7. Action taken</p> <ul style="list-style-type: none"> - Aircraft – 2 fixed wing, 20 helicopters - Heavy machinery working: five 20ton diggers, two dozers creating fire break. - Crew patrolled overnight 30/8/20-31/8/20 and worked on structure protection. - Multiple ground crews operating on structure protection and the northern section. - Command Unit onsite from Timaru. Will be unmanned overnight. - Set up welfare with the affected residents to reassure them we are doing everything possible to look after their properties. - Affected property owners meeting held 1100 31/8/20 with further meetings as required. Managed and supervised property access was undertaken 31/08/20 to inspect damage and provide reassurance. Action Plan and safety briefing has been prepared for property access purposes. - Two road escorts out of Aoraki Mt Cook and Glentanner 30/8/20: Approx 140ppl (60 cars) in first and 23 cars in the second. 31/8/20: Approx 40ppl (19 cars) departing 0930 and 140 ppl (46 cars) departing after 1000. A convoy of 4 cars travelled to Aoraki Mt Cook village (workers). - Overnight crews working throughout the night for property protection. - Three tankers are available to support overnight crews. - Occupants of affected properties remain evacuated. - Crews and IMT sourced for daytime operations Tuesday 1 September. - Working to establishment control to a width of 10m around the entire perimeter of the fire. - Contact made and continuing with stakeholders, landowners, Iwi, Police, LINZ, MPI, MSD DOC, NEMA, Meridian and Netcon. LINZ has taken the lead on liaising with Meridian on the operating easement and the broadband network provider. - Contacted neighbour to the north, [REDACTED] who has 50 cattle in the vicinity of the Bravo sector. She has made provision to allow the stock to move further from the fire site. - Coastguard are on site to provide support on the lake front around the areas where helicopters are dipping. - A fire investigator, John Foley, has been appointed and will be arriving today. 		

1. Incident Name:**Pukaki Downs Fire****2. Operational Period:****0700-1800 1/09/20****8. Factors**

- Extreme fire behaviour expected until arrival of rain around midnight, with a SW change due by 0300hrs.
- Power Grid Control Gate 18 is of concern to Meridian. This has the potential to have a significant effect on supply of power to whole of South Island. Liaison with Meridian has identified that immediate risk is negligible but the site is being monitored and a retardant line has been laid to provide additional protection.
- Powerlines along SH80 are severely damaged. Lines crews have assessed them and are looking at repair options.
- Topography – uneven ground and steep in places.
- Limited access to some properties.
- SH80 – link to Aoraki Mt Cook will remain closed overnight, SH8 reopened before 0900 31/08/20.
- Prime assets – lavender farm, commercial properties and structures.
- Livestock on affected lifestyle blocks. Feed being brought in. Liaising with land owners over animal welfare issues.
- Have engaged with iwi through the FENZ iwi liaison officer.
- Significant areas within fire area remain unburnt.

9. Predicted Incident Development

- Potential for active fire until forecast rain commences at midnight.

Risks:

- Access limitations due to weather.
- Persistent burning in dense wilding conifers.
- Tree hazards due to overhead burning and root destabilisation.

Prepared by: [REDACTED]	Date: 31/8/2020	Time: 2000
Approved by Planning Manager: [REDACTED]	Signed:	Date/Time: 31/8/2020

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Incident Objectives & Strategies

RF202

3. Incident Objectives/Aim/Mission

(SMART: Specific, Measurable, Achievable, Relevant, Time bound)

1. Protect life and property at all times.
2. Protect structures, the power grid Control Gate 18 and environmental assets throughout the operational period.
3. Contain the fire around 75% of the perimeter by 1800hrs 1/09/20.

4. Strategy/Strategies: (Plan of Action to meet Incident Objective)

1. Establish and execute safety plan for all operations.
- 2a. Validate 30m security around structures and accessways using IR.
- 2b. Where 30m containment not achieved, undertake blackout operations with ground crews and provide confirmation of achievement to the ICP.
3. Validate and strengthen the control line to a width of 10m with ground crews supported by aviation and heavy machinery resources where necessary, prioritising:
 - a) Northern boundary from the confluence of the Gladstone and Twizel Rivers through to SH80;
 - b) Southern boundary of Alpha and Zulu sectors.

Prepared by: [REDACTED]

Date: 31/8/20

Time: 1920

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Organisation List

RF203

3. Incident Control		Cell Phone	Radio Ch
Incident Controller	Rob Hands	[REDACTED]	
Deputy IC	[REDACTED]		
Safety Advisor	[REDACTED]		
Safety Officer (structure)	[REDACTED]		
Liaison Officer	[REDACTED]		

4. Agency Representative		Cell Phone	Radio Ch
Lead Agency	FENZ – Rob Hands	[REDACTED]	
Agency	DOC – [REDACTED]		
Agency	MDC – [REDACTED]		

5. Planning Section		Cell Phone	Radio Ch
Planning Manager:	[REDACTED]	[REDACTED]	
Plans Unit	[REDACTED]		
Situation Unit	[REDACTED]		
Resource Unit	[REDACTED]		
Management Support Unit	[REDACTED]		
Advance Planning Unit	[REDACTED] [REDACTED]		
Communications Planning Unit			
GIS Unit			
Observer(s)			

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6. Logistics Section		Cell Phone	Radio Ch
Logistics Manager	[REDACTED]	[REDACTED]	
Supply Unit	[REDACTED]	[REDACTED]	
Catering Unit	[REDACTED]	[REDACTED]	
Facilities Unit	[REDACTED]		
Finance Unit	[REDACTED]		
Communications Support Unit	[REDACTED]	[REDACTED]	
Medical Unit	[REDACTED]		
Ground Support Unit	[REDACTED]		

7. Public Information Section		Cell Phone	Radio Ch
Public Information Manager	[REDACTED]	[REDACTED]	

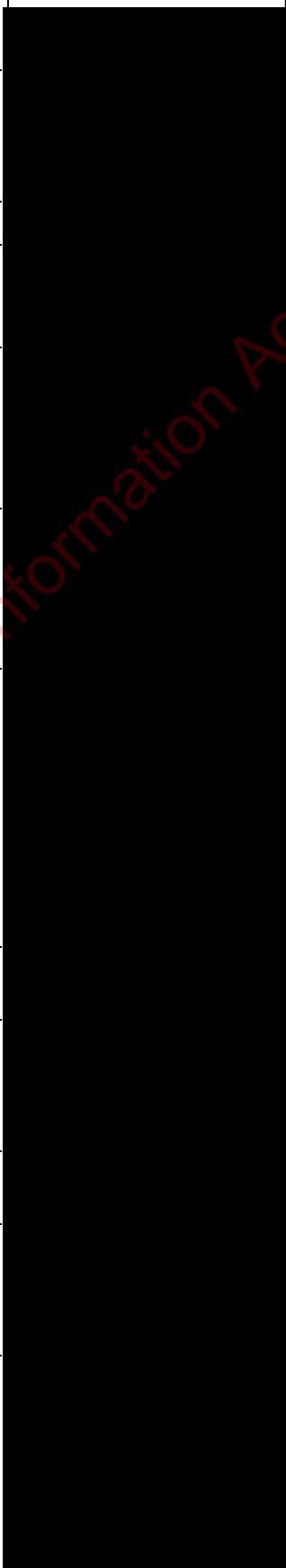
8. Operations Section		Cell Phone	Radio Ch
Operations Manager	[REDACTED]	[REDACTED]	
Deputy Operations Manager	[REDACTED]	[REDACTED]	
Sector Alpha Supervisor	[REDACTED]	[REDACTED]	
Sector Bravo Supervisor	[REDACTED]	[REDACTED]	
Sector Yankee Supervisor	[REDACTED]	[REDACTED]	
Sector Zulu Supervisor	[REDACTED]	[REDACTED]	
Heavy Machinery Supervisor	[REDACTED]	[REDACTED]	
Deputy Supervisor Heavy Machinery	[REDACTED]	[REDACTED]	
Air Division Commander	[REDACTED]	[REDACTED]	VHF FIRE 4
Air Attack Supervisor	[REDACTED]	[REDACTED]	VHF FIRE 4
Air Attack Supervisor	[REDACTED]	[REDACTED]	VHF FIRE 4
Air Support Supervisor	[REDACTED]	[REDACTED]	VHF FIRE 4

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9. Crew	Crew name	Crew members	Resource
Crew 1	Omarama		
Crew 2	Aorangi (Retardant)		
Crew 3	Twizel VFB		
Crew 4	Twizel Rural		
Crew 5	DOC Dunedin		
Crew 6	DOC Wanaka		
Crew 7	Johnson Forestry		
Crew 8	Mayfield		
Crew 9	Ashburton Rural		
Crew 10	Albury		
Crew 11	DOC Twizel		
Crew 12	DOC Geraldine		

Released under the Official Information Act 1982

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Crew 13	Aoraki Mt Cook		
Crew 14	Lauriston		
Crew 15	Clandeboye		
Crew 16	Alford Forest		
Crew 17	Peel Forest		
Crew 18	Burkes Pass		
Crew 19	Cannington		
Heavy Machinery Crew 1		3	
Heavy Machinery Crew 2		2	
Heavy Machinery Crew 3		3	
Coastguard	Mackenzie Lakes Coastguard		

Prepared by: [REDACTED]	Date: 31/08/20	Time: 2000
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Sector Assignment

RF204

3. Sector Alpha		4. Description Ground crews		5. Division Assigned	
6. Sector Supervisor [REDACTED]		Affiliation	Cellphone [REDACTED]	Radio Ch VHF Fire1	
7. Resources Assigned to this Period:					
Resource/Crew	Leader	# Persons	Transport Required	Drop-off Point/Time	Pickup Point/Time
Omarama	[REDACTED]	2			
Aorangi	[REDACTED]	5			
Twizel VFB	[REDACTED]	1			
Twizel Rural	[REDACTED]	3			
DOC Dunedin	[REDACTED]	5			
DOC Wanaka	[REDACTED]	5			
Johnson Forestry	[REDACTED]	9			
Total crew numbers		30			
8. Sector Assignment / Special Instructions					
<ul style="list-style-type: none"> - Monitoring and patrol. - Secure the perimeter. - Validate and strengthen the control line to a width of 10m with ground crews supported by aviation and heavy machinery resources where necessary, prioritising the southern boundary of sector. 					
9. Sector Communications				Phone	Radio Ch
Operations Manager	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
Air Attack Supervisor	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	VHF FIRE 4
Safety Advisor					

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Sector Assignment

RF204

3. Sector Bravo		4. Description Ground crews		5. Division Assigned	
6. Sector Supervisor [REDACTED]		Affiliation	Cellphone	Radio Ch VHF FIRE 2	
7. Resources Assigned to this Period:					
Resource/Crew	Leader	# Persons	Transport Required	Drop-off Point/Time	Pickup Point/Time
Mayfield	[REDACTED]	2			
Ashburton Rural	[REDACTED]	4			
Area Spare Tanker					
Total crew numbers		6			
8. Sector Assignment / Special Instructions					
<ul style="list-style-type: none"> - Work with aviation / heavy machinery to establish and strengthen containment. - Identify a contingency containment line. - Validate and strengthen the control line to a width of 10m with ground crews supported by aviation and heavy machinery resources where necessary, prioritising the northern boundary from the confluence of the Gladstone and Twizel Rivers through to SH80. 					
9. Sector Communications				Phone	Radio Ch
Operations Manager	[REDACTED]			[REDACTED]	
Air Attack Supervisor	[REDACTED]			[REDACTED]	VHF FIRE 4
Safety Advisor					

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Sector Assignment

RF204

3. Sector Yankie		4. Description Ground crews		5. Division Assigned	
6. Sector Supervisor [REDACTED]		Affiliation	Cellphone [REDACTED]	Radio Ch DOC 15	
7. Resources Assigned to this Period:					
Resource/Crew	Leader	# Persons	Transport Required	Drop-off Point/Time	Pickup Point/Time
Albury	[REDACTED]	2			
DOC Twizel	[REDACTED]	5			
DOC Geraldine		7			
Aoraki Mt Cook		6			
Total crew numbers		20			
8. Sector Assignment / Special Instructions					
<ul style="list-style-type: none"> - Work with aviation / heavy machinery to strengthen the existing firebreak. - Establish a contingency firebreak with heavy machinery. 					
9. Sector Communications				Phone	Radio Ch
Operations Manager	[REDACTED]			[REDACTED]	
Air Attack Supervisor	[REDACTED]			[REDACTED]	VHF FIRE 4
Safety Advisor					

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Sector Assignment

RF204

3. Sector Zulu		4. Description Ground crews		5. Division Assigned	
6. Sector Supervisor [REDACTED]		Affiliation	Cellphone [REDACTED]	Radio Ch VHF FIRE 3	
7. Resources Assigned to this Period:					
Resource/Crew	Leader	# Persons	Transport Required	Drop-off Point/Time	Pickup Point/Time
Lauriston		4			
Clandeboye		5			
Alford Forest		3			
Peel Forest		5			
Burkes Pass		2			
Cannington		4			
Total crew numbers		23			
8. Sector Assignment / Special Instructions					
<ul style="list-style-type: none"> - Structure protection. - Work with aviation / heavy machinery to strengthen the existing firebreaks. - Consider additional firebreak requirements. - Validate and strengthen the control line to a width of 10m with ground crews supported by aviation and heavy machinery resources where necessary, prioritising the southern boundary of sector. 					
9. Sector Communications				Phone	Radio Ch
Operations Manager	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	
Air Attack Supervisor	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	VHF FIRE 4
Safety Advisor					

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Sector Assignment

RF204

3. Sector Heavy Machinery		4. Description Heavy machinery to support ground resources		5. Division Assigned	
6. Sector Supervisor [REDACTED]		Affiliation	Cellphone [REDACTED]	Radio Ch	
7. Resources Assigned to this Period:					
Resource/Crew	Leader	# Persons	Transport Required	Drop-off Point/Time	Pickup Point/Time
[REDACTED]		3			
[REDACTED]		2			
[REDACTED]		3			
2 dozers ([REDACTED])					
Total crew numbers		21			
8. Sector Assignment / Special Instructions					
- Supervise heavy machinery operations across the entire fire ground. Work with Operations Manager and Sector Supervisors to manage heavy machinery requests.					
9. Sector Communications				Phone	Radio Ch
Operations Manager	[REDACTED]			[REDACTED]	
Safety Advisor					

Prepared by: [REDACTED]	Date: 31/8/20	Time: 2000
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Air Operations Plan

RF208

3. Personnel and Communications				
Position	Name	Affiliation	Phone	Radio Chan
Air Div Commander	[REDACTED]	FENZ	[REDACTED]	VHF FIRE 4
Air Attack Supervisor	[REDACTED]	FENZ	[REDACTED]	VHF FIRE 4
Air Support Supervisor	[REDACTED]	FENZ	[REDACTED]	VHF FIRE 4
Air Attack Supervisor	[REDACTED]	FENZ	[REDACTED]	VHF FIRE 4
Lead Helicopter Pilot	[REDACTED]	CSI	[REDACTED]	VHF FIRE 4
Lead Helicopter Pilot	[REDACTED]	Heliventures	[REDACTED]	VHF FIRE 4
Lead Helicopter Pilot	[REDACTED]	Sthn Lakes	[REDACTED]	VHF FIRE 4
Lead Fixed-Wing Pilot	[REDACTED]	Otago Air S	[REDACTED]	VHF FIRE 4

4. Air Resource Assignments				
Pilot Name / Company	Aircraft Type	Reg or Call Sign	Tactical Assignment	Telephone Freq/Chan Numbers
[REDACTED]	B2	IDM	Bucketing (Bx)	The Heli Line
[REDACTED]	B3	IRM	Bx	[REDACTED] Sthn Lakes
[REDACTED]	MD 520N	IES		[REDACTED] Heliventures
[REDACTED]	BA	HGO		Central Sth Is
[REDACTED]	B2	HMD	Bx	[REDACTED] Sthn Lakes
[REDACTED]	BK117	IBK	Bx	[REDACTED] Sth Lakes
[REDACTED]	B3	IBR	Bx	[REDACTED] Sthn Lakes
[REDACTED]	BA	HDB	Bx	[REDACTED] Central Sth Is
[REDACTED]	B3	HGR	Bx	[REDACTED] Aspiring Heli
[REDACTED]	B3	HEN	Bx	[REDACTED] Heliventures
[REDACTED]	B2	HAH	Bx	[REDACTED] Aspiring Heli
[REDACTED]	B2	IER	Bx	[REDACTED] Heliventures

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██████████	B2	HSM	Bx	██████████	The Heli Line
██████	Super D	HRQ	AAS platform	██████████	The Heli Line
██████	BA	HJP	AAS platform	██████████	Sthn Lakes
██████	Long Ranger	IGT	Bx	██████████	South Cant
██████	UH-1	HUE	Bx	██████████	Sthn Heli Lift
██████	MD 520N	HFJ	Bx	██████████	Rangitikei
██████████	Cresco	OAS	FW Bomber	██████████	Otago Air Spr
██████████	Air Tractor	SKF	FW Bomber	██████████	Sky Farmers

5. Location of Filling Points/Service Areas

Name	Grid Reference
Quarry – Pukaki Downs	E 1368035 N 5105173
Twizel River	E 1364554 N 5108343

6. Safety Notes / Hazards / Radio Coverage Limitations

- Powerline infrastructure – briefings and CRM
- A ten metre high tower associated with a RAWS: 1366277.790E 5106630.360N
- Smoke – regular situational awareness and communication
- Windy conditions – briefing, regular weather monitoring

7. Air Operations Special Equip or Service

-

8. Tasking

- Bucketing – direct suppression, Reconnaissance, Thermal scan, PRU Positioning, Property Protection
- Prepare for retardant operations, heavy machinery and ground crew protection

Prepared by: ██████████	Date: 31/08/20	Time: 1645
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Communications Plan

RF205

3. Radio Channels				
<i>Assigned To</i>	<i>Function</i>	<i>Channel</i>	<i>Frequency</i>	<i>System</i>
Sector A		VHF FIRE 1	143.8250	
Sector B		VHF FIRE 2	143.7875	
Sector Y		DOC 15	140.5500	
Sector Z		VHF FIRE 3	140.925	
Command Repeater		VHF REPEATER 1	143.2500/ 140.2500	ESB 180

4. Telephone			
<i>Assigned To</i>	<i>Email</i>	<i>Ext</i>	<i>Cellphone</i>

6. Other (e.g. email, Satphone, etc)

Prepared by:	Date:	Time:
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Safety Plan

RF209

3. General Safety Points

- CHECK IN/OUT: Everyone is to be signed in and out of the fire ground through the Forward Control Point (FENZ Command Unit)
- To undertake a communications check before entering the fire ground
- Familiarisation with LACES
- Report hazards/near misses/accidents on Salmon Cards (Urban crews on Safe @ Work Event Report Card)
- Report any health/medical issues immediately in line with the medical plan
- Maintain regular situation reports (containing all relevant information) via line supervisors

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

1. Incident Name:**Pukaki Downs Fire****2. Operational Period:****0700-1800 1/09/20****4. Specific Safety Points**

- Extreme fire behaviour with winds gusting to 115km/h, starting N, turning NW.
- A ten metre high tower associated with a RAWS: **1366277.790E 5106630.360N** (Alpha Sector).

	Control measures
1. Extreme fire conditions	<ul style="list-style-type: none"> • Monitor weather conditions, withdraw from tree areas in high wind. Sector supervisors to report weather conditions through to ICP.
2. Smoke	<ul style="list-style-type: none"> • Try to avoid working in smoke unless absolutely necessary.
3. Dangerous trees	<ul style="list-style-type: none"> • Avoid areas of dangerous/unstable trees. Identify and report to ICP for attention of tree felling crews.
4. Topography	<ul style="list-style-type: none"> • Uneven ground and variable topography. Ensure care is taken.
5. Escape routes and safety zones	<ul style="list-style-type: none"> • Confirm escape routes and safety zones and review regularly.
6. COVID-19 Alert Level 2	<ul style="list-style-type: none"> • Report illness (do not turn out), complete contact tracing. Employ safety measures (hygiene practices and physical distancing), maintaining crew cohorts. Clean vehicles at start of shift with disinfectant.
7. Road Safety	<ul style="list-style-type: none"> • Travel with lights on when moving on SH80.
8. Hypothermia	<ul style="list-style-type: none"> • Be prepared for working in cold, windy conditions.
9. Driving conditions	<ul style="list-style-type: none"> • Following a rain or snow event, check whether the road/track is accessible.
10. Working over water	<ul style="list-style-type: none"> • Coastguard boats are operating on Lake Pukaki. Available on VHF FIRE 4 for rescue.

Prepared by: [REDACTED]

Date: 31/08/20

Time: 1145

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Medical Plan

RF206

3. First Aid Station						
<i>Name</i>	<i>Location</i>	<i>Phone/Radio Channel</i>	<i>Paramedics available at First Aid Station</i>			
FCP	Lavender Farm, SH80		None			
Twizel Medical Centre	15 Mackenzie Drive, Twizel	03-435 0777				
4. Transportation						
<i>Ambulance Service</i>	<i>Address</i>	<i>Phone/Radio Channel</i>	<i>Paramedics available with Ambulance</i>			
Twizel Ambulance	Mackenzie Drive	111	EMT only			
Aoraki Mt Cook Ambulance		111	First Response only			
5. Hospitals						
<i>Hospital Name</i>	<i>Address</i>	<i>Phone</i>	<i>Travel Time</i>		<i>Burn Unit</i>	<i>Heli Pad</i>
			<i>Road</i>	<i>Air</i>		
Timaru Hospital	Queen Street, Timaru	036872100	2hrs	40m	No	Yes
6. Special Emergency Procedures						
<ul style="list-style-type: none"> - Any significant event, call 111 and ensure the IC, Operations Manager and Deputy are informed. - Minor injuries – notify sector supervisor. First aid kits in vehicles. - Defibrillator on command unit at FCP. - All injuries, including minor, to be recorded on Salmon Cards. Urban crews to record in Safe at Work. 						
8. Reviewed by Safety Advisor:			Date/Time:	1145		

Prepared by:		Date: 31/08/20	Time: 1030
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Public Information Plan

RF

3. Personnel and Communications				
Position	Name	Affiliation	Phone	Radio Chan
Public Information Manager	██████████	MDC	██████████	
Information and Warnings Unit				
Media Unit				
Community Liaison Unit	██████████	MDC	██████████	
4. Public Meetings				
Meeting purpose	Location	Time	Contact person	Phone
Public Q&A	Twizel Events Centre	T.B.C	Chris Clarke	██████████
5. Public Information Sources				
Websites	www.mackenzie.govt.nz			
Social Media	BE ADVISED: Given the high profile of these burns, ensure that any photos or posts must be respectful of both any personnel visible and the organisations			
Radio	n/a			
Helpline	n/a			
Information Points	n/a			
6. Key Public Messages				
<ul style="list-style-type: none"> - Please avoid the area to allow fire crews to focus on their work. - Keeping doors and windows closed will help minimise the effects of smoke. - No current or expected threat to Twizel or Aoraki Mt Cook village. 				
NOTE:				

Prepared by: ██████████	Date: 31/08/20	Time: 1430
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Welfare Plan

Actions Taken:

- Facilitated convoys out of Aoraki Mt Cook and Glentanner 30/08/20 and 31/08/20.
- 1100hrs 31/08/20: meeting with impacted property owners with IC Fire, Planning and Community Liaison.
- 1330hrs 31/08/20: conducted escorted trips into impacted properties with owners to allow them to inspect damage and recover important items.
- 1800hrs 31/08/20: one-page fact sheet distributed to stakeholders within Aoraki Mt Cook Village and Glentanner Holiday Park.
- Confirmation that all animals (companion and production) are accounted for and safe, and evacuated as necessary.

Actions Planned:

- 0930hrs 1/09/20: impacted property owners meeting with Minister of Civil Defence, Hon. Peeni Henare.
- Facilitate re-entry of properties providing fire and ground conditions are safe.
- Continue to work with impacted property owners to create recovery plans for each property.
- Continue to engage with Aoraki Mt Cook Village and Glentanner Holiday Park.
- Facilitate introductions between support agencies and impacted property owners: MPI, MSD, South Canterbury Rural Support Trust.

Contingency / Additional Factors:

- Engage with the community of Twizel to thank them for the support offered to Fire and Emergency NZ and contractors and continue to offer reassurance to residents.
- Monitor the requirement for additional evacuations and the psycho-social impacts of the wider community.

Wildfire/Emergency Contingency Plan

In the event of a new ignition or other significant emergency in either the Mid/South Canterbury or neighbouring Districts that may require additional resourcing beyond initial turnout (PDA):

1. IMT Incident Controller, Planning Manager and other senior personnel are advised that there is an active incident response underway.
2. Planning section is to gather situation information on the event. Initial response will be from PDA turnout via FireCom and local management may determine that additional resourcing outside normal station turnout is not required.
3. For a significant emergency, such as wildfire or earthquake, advise all operational staff as those with family, friends and assets located in the affected area will most likely want to contact home (NB: this is more relevant for a significant natural disaster such as earthquake, or a rapidly developing fire likely to require evacuations).
4. Consider any possible need to release operational staff where their base locations are in the area immediately affected by the emergency event.
5. Identify likely response requirements from the Pukaki Downs Fire resources if initial attack capability is likely to be exceeded for the new emergency. Resources should be released to support response to the new incident where this tasking does not compromise safety and response of the Pukaki Downs Fire.

Released under the Official Information Act 1982

Prepared by: [REDACTED]	Date: 31/08/20	Time: 1430
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1. Incident Name:

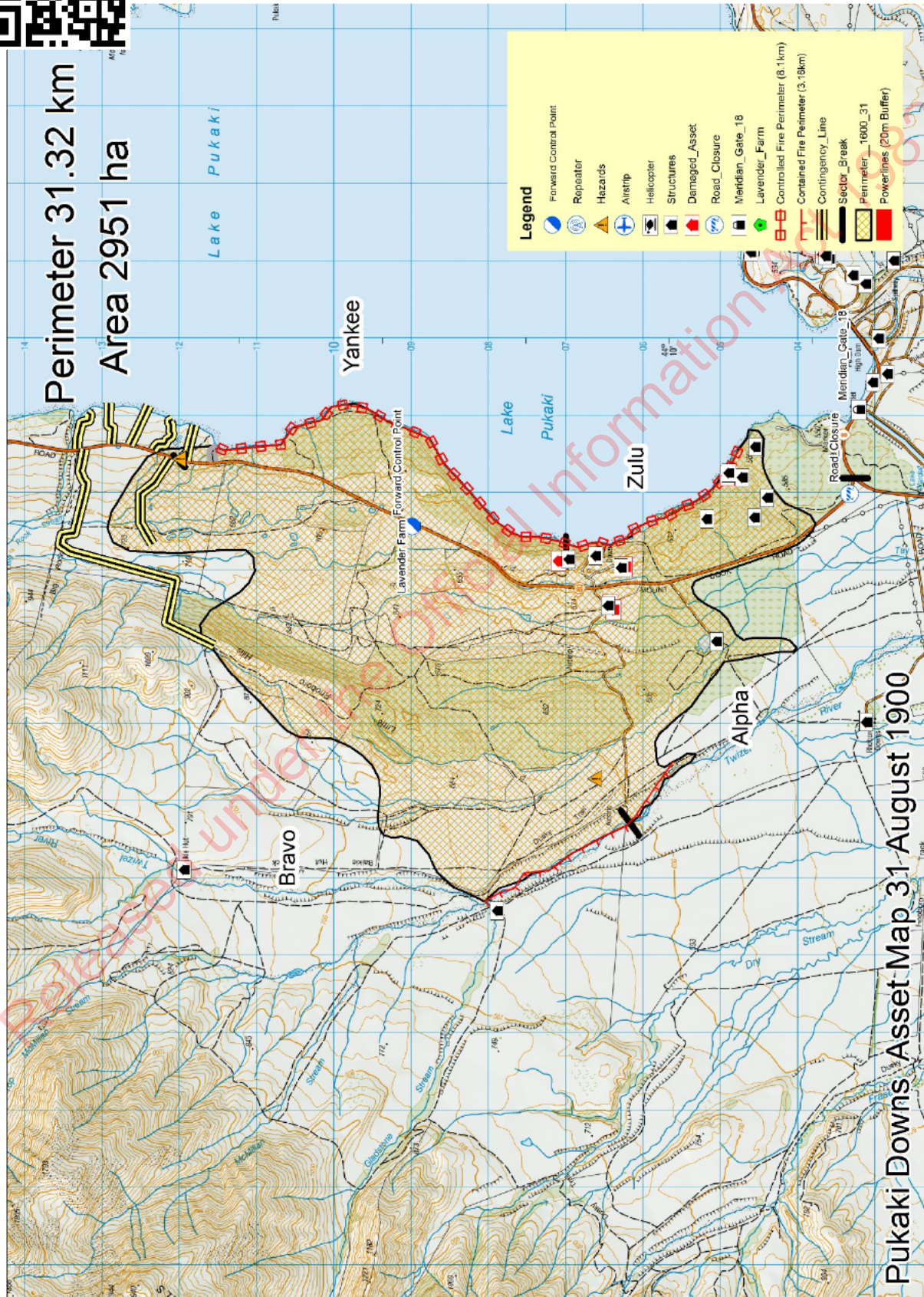
2. Operational Period:

Pukaki Downs Fire

0700-1800 1/09/20



Appendix A: Fire/Sector Map



Appendix B: Weather/Fire Behaviour Forecast



Weather/Fire Behaviour Forecast

Fire Behaviour Supplement

PREDICTION for day 1/9/2020

Fire Name: Pukaki Downs

Prediction For: 0600 - 1800

Area: Twizel

Time & Date Update Issued: 1900hrs 31th August 2020

Prepared by: [REDACTED]

Parameters:

- The Pukaki Aero RAWS used for start-up values and observed values.
- Grass curing input @85%
- The three fuel types of Forest, Grass and Scrub assume Fire Danger Class standard fuel properties.
- Wilding Pine likely to respond more as scrub fuel.

Weather Summary:

Situation: A strong northwest flow affected the South Island ahead of the cold front that arrived overnight.

Tues morning (after 2 am): North to northwest wind eased rapidly after 2 am and turned southerly 20 to 30 km/h around 3 to 4am, and will die out during morning. Rain got steadier after 2 am and was expected to turn to snow from around dawn. Total rainfall likely to be in the 15 to 20 mm range, and including 5 to 10 cm of snow during Tues morning. Note temps reduce and RH increases early morning hours.

Tues pm/evening: Rain/sleet/snow gets patchy and light during pm hours. Expect an easterly wind 10 to 20 km/h to kick in during pm. Clears at night with frosty conditions developing.

Wed: Dry with light winds. Frosts morning and night.

Weather Parameters:

Temperature -0.2° rising to 3.4°.

RH 100% lowering to 70%.

Wind speed/direction. Southerly up to 20kph changing through the east back to the west 13kph in the afternoon. Southerly winds gust at 36kph dropping to 15kph east through west.

Rain/snow 10.1 mm rain that may fall as snow (10cm snow).

1. Incident Name:

Pukaki Downs Fire

2. Operational Period:

0700-1800 1/09/20

Fire Behaviour General:

Following the rain and shift to southerly conditions fire behaviour has dropped. Spreading fire will be unlikely, however areas of deep seated or smouldering heavier fuels and windrows will continue to burn. In some shallow swales and small valleys the surface loose organic has not fully burnt and will continue to smoulder.

There are many areas of either partially or unburnt fuel within the fire area that will burn given the chance. There are many hung up trees sitting on partially burnt limbs waiting to fall. In places the burnt limbs are partially consumed, brittle and will break, dropping the trees.

Scrub Fuel (includes wilding pine). Fuel load est 30 – 40 t/ha. Smouldering little to no spread.

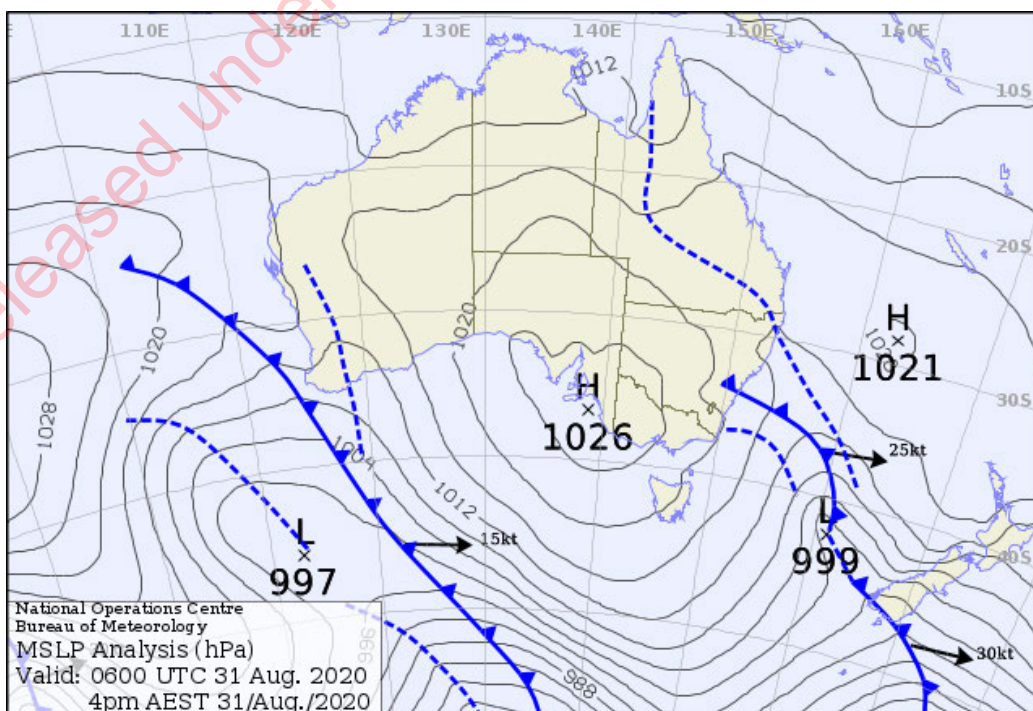
Grass Fuel. Fuel load est 7t/ha at 85% curing. Smouldering little to no spread.

Standard Forest. Fuel load est 20t/ha. Smouldering little to no spread.

Safety Considerations:

- 1) Care should be taken when moving through forested areas. The winds may topple trees or break tree limbs. Ongoing smouldering will continue to consume tree roots and limbs.
- 2) A watch must be kept of the welfare to crews with the onset of wet and very cold conditions and very low wind chills. Hypothermia is a very real threat

Weather map: 7 pm Mon 31 August (NZDT)



Appendix C: Restricted Airspace

NOTAM List

NZZC (NZZC FIR)
A2199/20

NZZC (NZZC FIR)
A2413/20

FROM: [REDACTED]
TO: [REDACTED]
LOWER: SFC UPPER: 8500FT AMSL

TEMPO RESTRICTED AREA NZR909 IS PRESCRIBED AS FLW: ALL THAT AIRSPACE BOUNDED BY A CIRCLE, RADIUS 5NM CENTRED ON 44 09 28 S 170 04 40 E (LAKE PUKAKI). ACTIVITY: FIREFIGHTING OPERATIONS ADMINISTERING AUTHORITY: FIRE AND EMERGENCY NEW ZEALAND, TEL (03) 341 0266. PRESCRIBED PURSUANT TO CIVIL AVIATION RULE PART 71 UNDER A DELEGATED AUTHORITY ISSUED BY THE DIRECTOR OF CIVIL AVIATION

End of Report

Update Watch Map

1. Incident Name:

Pukaki Downs Fire

2. Operational Period:

0700-1800 1/09/20

