

IAP COVER SHEET

INCIDENT ACTION PLAN						
	The items checked below	v are included in the incident Action	n Plan			
\boxtimes	SITUATION REPORT					
	INCIDENT OBJECTIVE	S & STRATEGIES				
\boxtimes	ORGANISATIONAL LI	ST				
	SECTOR ASSIGNMEN	IT .				
	DIVISIONAL ASSIGNM	ИENT 🗼				
	AIR OPERATIONS PLA	AN				
	COMMUNICATION P	LAN				
	SAFETY PLAN					
	MEDICAL PLAN					
	FIRE MAP					
\boxtimes	WEATHER FORECAST	Γ AND MAP				
\boxtimes	FIRE BEHAVIOUR FO	RECAST				
	FACILITIES LAYOUT P	PLAN				
	All I					
Approv	ved by Incident Controller:	Signed	Date/Time			
	CO					
(

2. Operational Period MONDAY 4 APRIL 2022

Situation Report

RF201

3. Location	4. Vegetation	5. NZ Topo50 Grid Ref.
Awarua Bay (Bluff)	Scrub/Grass	
	Other: Wetlands	

6. Assessment

1. Incident Name

Fire has started in wetlands, under drought conditions. Currently dry / overcast, no rain forecast with stable westerly winds 20-30km/h gusting 50km/h. RH 60-75%

Sector Alpha is the north flank, with farmland in surrounds. Sector Bravo NE active fire head with forestry block located in northern surrounds. Southern flank runs to sea, and Tiwai peninsula (Tiwai Smelter and lizards habitat).

Currently 4 ground crews working Alpha (N) flank. 9 helicopters working Alpha (N) and Zulu (S) flanks + 1 heli platform.

IC's intent is to contain the Alpah (N) edge protecting potential burn towards houses, and the Zulu (SE) most edge with a fire break to avoid potential burn down the peninsula in case of wind change.

7. Action taken

Direct attack with heli crews working Alpha (N) flank and Zulu (SE) with support from ground crews working Alpha from W to E.

8. Factors

Currently the wind is stable and westerly, however a forecasts change to easterly Monday evening.

Change in wind direction tomorrow afternoon may threaten Tiwai peninsula (including Aluminium Smelter) and Alpha (N) Awarua wetlands.

Ground crews working Alpha (N) flank have heavy wetlands underfoot with potential for ash pits whilst mopping up.

9. Predicted Incident Development

Predicted to continue to run on Bravo (NE) edge up to the estuary. Zulu (S) edge is slowly backburning, potentially run as a head fire late tomorrow afternoon. Alpha (NW) flank fire, which potentially run as a head fire late tomorrow afternoon during wind change W to E.

Incident Objectives & Strategies

RF202

3. Incident Objectives/Aim/Mission

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

Wetland fire, direct attack with helicopters x 9. Strong winds from westerly all day with forecast wind change W to E / NE 1700h.

Objectives -

- Knock down / black out Alpha (N) flank with particular attention to E edge and surrounding forestry block (Awarua Wetlands).
- Secure "pinch point" at southern end utilising a 6m fire break across the start of Tiwai peninsula, in anticipation of late afternoon wind change W to E.
- Containment within existing fire flank edge Alpha (N) side and minimise backburning on Zulu (S) flank.

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

- Direct attack with aircraft and ground crews in support.
- Ground crews mop up Alpha (N) hotspots.
- Bravo (E) allowing to run to estuary.
- Monitoring Zulu (S) for asset protection as required.

Prepared by: Date: Time:

1. Incident Name

Organisation List

3. Incident Control		Cell Phone	Radio Ch
Incident Controller			
Deputy IC			
Information Officer			1/2
Safety Officer			X
Liaison Officer			
4. Agency Representative		Cell Phone	Radio Ch
Lead Agency		200	
Agency			
Agency	C	0,	
Agency			
5. Planning/Intell Section		Cell Phone	Radio Ch
Planning/Intell Manager			
Situations Unit			
Resources Unit			
Management Support Unit	<i>Q</i> ₁		
Information Unit			
Advance Planning Unit			
Technical Specialists Unit			
6. Logistics Section		Cell Phone	Radio Ch
Logistics Manager			
Supply Unit			
Catering Unit			
Facilities Unit			
Finance Unit			
Communications Unit			
Medical Unit			
Ground Support Unit			

Prepared by:	Date:	Time:
		1

1. Incident Name

Awarua Bay

2. Operational Period MONDAY 4 APRIL 2022

7. Operations Section		Cell Phone	Radio C
Operations Manager			
Deputy Operations Manager			
Division One Commander			
Sector A Supervisor			. 0
Sector B Supervisor			1
Sector C Supervisor		~ (
Sector D Supervisor			
Division Two Commander			
Sector E Supervisor			
Sector F Supervisor		0.0	
Sector G Supervisor			
Sector H Supervisor			
Air Division Commander			
Air Attack Supervisor			
Air Support Supervisor			
-			
-	0,		
aleased under			

Prepared by:	Date:	Time:

3. Sector	4. Description				5. Division Assigned		
Alpha	North Flank						
6. Sector Supervisor	Affiliation		Cellpl	hone	Radio C	h &	
	Hedgehope				VHF1	100	
7. Resources Assigned t	his period					C.	
December /Cress	Leader	# Da		Transport	Drop-	Pickup	
Resource/Crew	Leader	# Per	sons	Required	off Point/	Point/time	
					time		
Glenorchy		3		no			
Heslop							
Hedgehope		5					
DOC 1		3					
DOC 2							
DOC 3		• (<i>y</i>				
DOC 4							
Waikawa	×						
Drummond	O						
Hedgehope 2 (?)	0						
8. Sector Assignment /	Special Instructions	S		1	1		
Plackaut FOm incide at	iko odgo						
Blackout 50m inside of f	ire euge.						
70.							
25							
9. Sector Communication	ons				Phone	Radio Ch	
Division/Division Cmdr							
Air Attack Supervisor						VHF4	
Safety Officer						UHF2	

Prepared by:	Date:	Time:
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3. Sector	4. Description			5. Division Assigned		
Bravo	North East Active Edge					
6. Sector Supervisor	Affiliation		Cellphone		Radio Ch	100
7. Resources Assigned th	nis period			_	_	C.
Resource/Crew	Leader	Leader # Persons		Transport Required	Drop-Pickup off Point/time Point/ time	
Nil				70		
				40(1)		
		+_ (3			
		d C				
8. Sector Assignment / S	pecial Instruction	S				
9. Sector Communicatio	ns				Phone	Radio Ch
Division/Division Cmdr						
Air Attack Supervisor						VHF4
Safety Officer						UHF2

Prepared by:	Date:	Time:
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3. Sector Zulu	4. Description Southern Flank				5. Divisio	n Assigned
6. Sector Supervisor	Affiliation Cellphone		Radio Ch VHF1	1000		
7. Resources Assigned the	nis period			_		Č.
Resource/Crew	Leader	# Pei	rsons	Transport Required	Drop- off Point/ time	Pickup Point/time
Nil						
				(O)		
				•		
			<u>V. </u>			
			•			
8. Sector Assignment / S	Special Instructions					
9. Sector Communicatio	ns				Phone	Radio Ch
Division/Division Cmdr						
Air Attack Supervisor						
Safety Officer						

Prepared by: Date: Time:

3. Sector	4. Description	5. Division Assigned				
Heavy Machinery (HM)	Southern Flank – Penninsula pinch point					9
6. Sector Supervisor	Affiliation		Cellpl	hone	Radio Ch	1 10
	SouthRoads				VHF 1	X
7. Resources Assigned th	nis period		1		-	C
Resource/Crew	Leader	# Pei	rsons	Transport Required	Drop- off Point/ time	Pickup Point/time
Dozer (D7)						
Grader						
Dozer (D65)				ξ Ο''		
	C.O					
	, c					
8. Sector Assignment / S	pecial Instructions					
***Potentially complete from SouthRoads, working						
9. Sector Communication	ns				Phone	Radio Ch
Division/Division Cmdr						
Air Attack Supervisor						VHF4
Safety Officer						UHF2
3,						

Prepared by:	Date:	Time:
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Air Operations Plan

	<u> </u>	RF208						
3. Personnel and Comm Position		ame		Affiliatio	on	Phone		Radio Chan
Air Div Commander								Ω.
Air Attack Supervisor								VHF4
Air Support Supervisor								VHF4
Lead Helicopter Pilot								VHF4
Lead Fixed-Wing Pilot		N/A				7		
4. Air Resource Assignm	ents	•						
Pilot Name/ Company	Aircraft Type	Reg or Call sign	Ass	signment		Tactical req/Chan	Т	elephone Numbers
	AS350B3	ZK-HVA	Α	\$	VH	1 4	Onboard	
	MD369D	AK-IMT	PLA	ATFORM	VH	F4	Company Onboard Company	:
	AS350B3	ZK-HNU	Z		VH	ı 	Onboard Company	
	AS350B3	ZK-IMY	z		VH	F4	Onboard Company	:
	AS350B3	ZK-ITY	Α		VH	F4	Onboard Company	
	BK117	ZK-IYY	Α		VH	F4	Onboard Company	:
	AS350B3	ZK-IDE	Α		VH	1 4	Onboard Company	·
	AS350B3	ZK-IRM			VH	1 4	Onboard	
	BK117	ZK-HJK			VH	F4	Onboard Company	:
5. Location of Filling Poi	nts/Service A	reas						
Name		T		G	rid R	eference		
6. Safety Notes / Hazard Air Traffic not required t		 erage Limit	atio	ns				
7. Air Operations Specia	i Equip or Ser	vice						

Prepared by:	Date:	Time:

Communications Plan

RF205

3. Radio Channels Assigned To	Function	Channel	Frequency	System
Command		UHF2		9/
Ground Crews		VHF1		
Air to Ground		VHF4		
				~ 1
				,0
			2	
			ķΟ\'	
4. Telephone				
Assigned To	Landline	Cell phone	Fax	Comments
	in			
\	(0')			
70				
25				
100				
Ø,				
6. Other (e.g. email, Sat	tphone, etc)			

Prepared by:	Date:	Time:
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1. Incident Name

Safety Plan

RF209

3. General Safety Points

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

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

Fire Orders LACES Watchouts 1. conditions and forecasts 1. Fire size is unknown (no size up). L - Lookout(s) 2. Know what your fire is doing at all 2. Unfamiliar territory 3. Safety zones and escape routes not A – Awareness identified. Base all actions on current and 3. 4. Unfamiliar with weather and local factors Anchor Point(s) expected fire behaviour of the fire. influencing fire behaviour. 4. Identify escape routes and safety No communications link with crew members C – Communication(s) zones and make them known. or supervisor. 5. **Post** lookouts when there is possible **E** – Escape Route(s) Instructions and assignments not clear. danger. Weather is getting hotter, drier and relative S – Safety Zone(s) 6. Stay alert. Keep calm, Think clearly, humidity dropping act decisively. 8. Wind increases and/or changes direction. 9. Getting frequent spot fires across the line 7. Maintain prompt communication with 10. Working uphill or downwind of a fire your crew/s, your supervisor and 11. Working on a steep slope adjoining crews. 12. Working in rugged terrain 8. Give clear instructions and ensure they 13. Can't see main fire are understood. 14. In unburnt vegetation 9. Maintain control of your crew/s at all 15. Walking through hot ashes 16. Working alone 17. Getting tired 10. Fight fire aggressively having provided 18. Working near power lines for safety first. 19. Working near machinery 20. Working with aircraft 21. Working around trees or spars

4. Specific Safety Points

Fireground is wetlands with peat underfoot. Watch for ash pits and stay alert to exit routes through rough swamp.

Helicopters working overhead (9 machines)

Surrounding area: Farmland to NW, Forestry block NNE, Southern flank runs to sea, key risk to avoid burn on southern flank into the Tiwai peninsula.

Current forecast is stable Westerly winds, potential wind change forecast 5pm today (MON 4 APR), which could mean Alpha (N) flank and Zulu (SE) flank turn to head fire during the wind change W to E.

Knockoff no later than 1800 ahead of sunset.

Prepared by:	Date:	Time:

Medical Plan

RF206

3. First Aid Station		Phone/Radio)	Paran	nedics	
Name	Location	Channel	av	ailable	at Stat	ion
Command Unit	Fwd control point	UHF1				2
Invercargill Fire Station					, O	
				~ C		
		5				
4. Transportation Ambulance Service	Address	Phone/Radio Channel		Paran able wit	nedics th Ambi	ulance
Invercargill		Chamie	dvane	ADIC WIT	.II AIIID	ararice
<u> </u>		KO.				
	.0					
	.c.C					
5. Hospitals			<u>Travel</u>	<u>Time</u>	Burn	Heli
Hospital Name	Address	Phone	Road	Air	Unit	Pad
Southland Hospital	Invercargill		30min			
X						
6. Special Emergency Procedu	res					
One machine identified as med	divac for personnel as re	quired, in addition	on to pla	ıtform r	nachine	<u>.</u>
One machine identified as med						
0						
8. Reviewed by Safety Advisor	r:	Date/Tir	ne: 1645	3/4/20	022	

Prepared by:	Date:	Time:
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F3455010 - AWARUA BAY FIRE **INCIDENT ACTION PLAN**



Released under

INCIDENT ACTION PLAN The items checked below are included in the incident Action Plan ☑ INCIDENT OBJECTIVES & STRATEGIES □ ORGANISATIONAL LIST □ SECTOR ASSIGNMENT □ DIVISIONAL ASSIGNMENT ☐ AIR OPERATIONS PLAN ☐ COMMUNICATION PLAN ☐ SAFETY PLAN ☐ MEDICAL PLAN ☐ FIRE MAP ☐ FACILITIES LAYOUT PLAN **Approved by Incident Controller:** Date/Time Signed 4 April 2022/1730

Prepared by:	Date: 04/04/2022	Time: 17:30

Situation Report

RF201

3. Location	4. Vegetation	5. NZ Topo50 Grid Ref.
F3455010 Awarua Bay	Scrub/Grass	
	Other: Wetlands	

6. Assessment

Fire has started in wetlands, under drought conditions.

Currently dry / overcast, no rain forecast with stable westerly winds 20-30km/h gusting 50km/h. RH 60-75%

Sector Alpha is the north flank, with farmland in surrounds. Sector Bravo NE active fire head with forestry block located in northern surrounds. Southern flank runs to sea, and Tiwai peninsula (Tiwai Smelter and lizards' habitat).

Currently 6 ground crews working Alpha (N) flank; 3 ground crews and 1 heavy machinery crew working Zulu (SE). 9 helicopters working Alpha (N) and Zulu (S) flanks + 1 heli platform.

IC's intent is to contain the Alpha (N) edge protecting potential burn towards houses and Awarua wetlands, and the Zulu (SE) most edge with a fire break to avoid potential burn down the peninsula and hit the Tiwai Aluminium Smelter.

7. Action taken

Direct attack with heli crews working Alpha (N) flank and Zulu (SE) with support from 6 ground crews working Alpha from W to E. 3 ground crews and 1 heavy machinery crew working Zulu (SE) and laid down retardant line to strengthen containment line.

1. Incident Name F3455010 - Awarua Bay

2. Operational Period: Monday, 4 April 2022

8. Factors

Currently the wind is stable and westerly. Change in wind direction tomorrow afternoon may threaten Tiwai peninsula (including Aluminium Smelter) and Alpha (N) Awarua wetlands.

Ground crews working Alpha (N) flank have heavy wetlands underfoot with potential for ash pits whilst mopping up. Vegetation is dense with limited visibility and crews are briefed to be aware of exits.

MONDAY

Rainfall: A few light showers this evening. Total rainfall less than 5mm

Sustained winds: W winds turning E to NE around 7pm. Sustained near 25 km/h, gradually decreasing throughout the day and dropping to 5-10 km/h by evening.

Wind gusts: Gusts of up to 40 km/h gradually easing to around 20-25 km/h in the evening.

Temperature: Currently 16°C increasing to a high of 18°C.

Humidity: Currently near min for the day at 60%

TUESDAY

Rainfall: Showers in the early morning with steadier rain late afternoon. Total rainfall around 10mm. Sustained winds: N to NE winds becoming W to NW in the afternoon. Sustained at 10-15 km/h in the morning, increasing in the afternoon and evening to 20 km/h.

Wind gusts: Gusts up to 30 km/h in the morning, increasing in the afternoon and evening to 40-45 km/h. Temperature: Near 14°C at dawn increasing to a high of 22°C.

Humidity: A low of 55-60% in the afternoon.

9. Predicted Incident Development

Predicted to continue to run on Bravo (NE) edge up to the estuary. Zulu (S) edge is slowly backburning, potentially run as a head fire late tomorrow afternoon. Alpha (NW) flank fire, which potentially run as a head fire late tomorrow afternoon during wind change W to E.

Prepared by: Date: 04/04/2022 Time: 17:30

Incident Objectives & Strategies

RF202

3. Incident Objectives/Aim/Mission

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

Wetland fire, direct attack with helicopters x 9. Strong winds from westerly all day with forecast.

Objectives – Remain the same: Protect assets (namely Tiwai smelter), also significant wetland area.

Intentions

- Night shift was put in place to protect the fire break (peninsula) lower SW corner of Zulu (S) edge.
- Alpha (N) black out north edge and contain the fire within existing area
- Bravo (E) allow to run to estuary
- Zulu (S) Protect the peninsula "pinch point" fire break. Utilising additional ground crews anchored off the beach to support HM crew.

Slightly elevated ridge with dry edge runs all the way to fire break identified – needs to be added to FACTORS above

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

- Direct attack with aircraft and ground crews in support.
- Ground crews mop up Alpha (N) hotspots.
- Bravo (E) allowing to run to estuary.
- Monitoring Zulu (S) for asset protection as required. Heavy machinery is on standby with ground crews in support.
- Preparing for night flight air attack operation if necessary to protect containment line in Zulu (S).

Forecast swing southerly now E 7-8pm tonight, wind speed dropping off.

Organisation List

0	rganisation Lis	it					108	32
3. Incident Control		Ce	ell Phone	Radio Ch		·	1/2	
Incident Controller								
Deputy IC	TBA					D		
Information Officer								
Safety Officer					•	•		
Liaison Officer					X			
4. Agency Representative		Co	ell Phone	Radio Ch				
Lead Agency								
Agency					•			
Agency								
Agency								
5. Planning/Intell Section		•	Cell Phone	Radio Ch				
Planning/Intell Manager								
Situations Unit	(11/						
Resources Unit								
Management Support Unit								
Information Unit								
Advance Planning Unit	*							
Technical Specialists Unit								
	10,							
6. Logistics Section	70,	c	Cell Phone	Radio Ch				
Logistics Manager								
Supply Unit								
Catering Unit								
Facilities Unit								
Finance Unit								
Communications Unit								
Medical Unit								
Ground Support Unit								
Prepared by:	Date: 04/04/20	22	Time: 17:30	_				

1. Incident Name F3455010 - Awarua Bay	2. Operational Period: Monday, 4 April 2022

Operations Manag	ger			
Donuty Operations Manag				
Deputy Operations Manag	ger			~ CX /08
Division One Command	der			
Sector A Supervis	sor			
Sector B Supervis	sor			
Sector C Supervis	sor			
Sector Zulu Supervis	sor			
Division Two Command	der			
Sector E Supervis	sor			
Sector F Supervis	sor		\$ $\langle O \rangle$	
Sector G Supervis	sor			
Sector H Supervis	sor			
Air Division Command	der			
Air Attack Supervis	sor			
Air Support Supervis	sor			
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eleased.	under			

Pr	epared by:	Date: 04/04/2022	Time: 17:30

4. Description

3. Sector Night

5. Division Assigned

Sector Assignment

Shift	Southern Edg point	ge Zulu -	Tiwai Pinch	Point			
6. Night IC/Opps	Affiliation	Affiliation			Radio Ch		
	DOC	DOC			VHF 1		
7. Resources Assign	ned this period						
_	_			Transport	Drop-off	Pickup	
Resource/Crew	Leader	Pers		Required	Point/time	Point/time	
71 Unit		4					
Smokechaser		2					
Tanker		2				XO	
Air/Safety		1					
					• (7)	•	

8. Sector Assignment / Special Instructions

On standby. Dozer is parked in a 50 x 50 cleared safe zone.

Monitor fire and provide initial suppression if the fire advances on the break if fire intensity allows safely.

9. Sector Communic	cations	Phone	
Radio Ch	70.		
Division/Division			
Cmdr			
Air Attack			
Supervisor	X		
Safety Officer			
C			

Prepared by:	Date: 04/04/2022	Time: 17:30

	Sector A	SSigi	nm	ent			
3. Sector Alpha	4. Description North Flank				5. Divis	ion Assig	ned
6. Sector Supervisor	Affiliation Hedgehope		Cellp	hone	Radio C	h	
7. Resources Assigned t	:his period						
Resource/Crew	Leader	# Per	rsons	Transport Required	Drop- off Point/ time	Pick Point/	
Glenorchy		4		no			
Forestry					(0	
Hedgehope		5					
DOC 1		4					
DOC 2				7			
DOC 3							
DOC 4							
Waikawa		3					
Drummond		3					
			3)				
		*					
8. Sector Assignment /	Special Instruction	ns			•		
Blackout 50m inside of t	fire edge.						
9. Sector Communication	ons				Phone	Rad	dio
Division/Division Cmdr							
Air Attack Supervisor						\	VHF4
Safety Officer						ι	JHF2

Prepared by:	Date: 04/04/2022	Time: 17:30	

3. Sector Bravo	4. Description		5. Division Assigned				
	Northeast Active	Edge					
6. Sector Supervisor	Affiliation		Cellphone		Radio Ch		
7. Resources Assigned th	nis period						
77 Nesources Assigned to	ns period			Transp	Drop-off	Picku	ір 🧪
Resource/Crew	Leader	# Pei	rsons	ort Requir ed	Point/time	Point/	time
Nil					\$	(O)	
					10.		
				120)		
8. Sector Assignment / S	pecial Instructions						
Helicopters bucketing as	required. No grou	nd cre	ws in th	ne area.			
	76/						
9. Sector Communication	ns				Phone	Radio	Ch
Division/Division Cmdr							
Air Attack Supervisor						VHF4	!
Safety Officer						UHF2	2

Prepared by:	Date: 04/04/2022	Time: 17:30
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	Sector Ass	signm	ent			
	RF20					
3. Sector	4. Description			5. Divis	on Assigned	
Zulu	Southern Flank					
6. Sector Supervisor	Affiliation	Cellp	hone	Radio C	h	60
	Zulu			VHF1		
7. Resources Assigned	this period					
Resource/Crew	Leader	# Persons	Transport Required	Drop- off	Pickup Point/time	10.
				Point/ time		
Hedgehope						
Crew 2						
Crew 3						
			~ C)			

8. Sector Assignment / Special Instructions

OVERNIGHT PATROL to be relieved (1 ground crew at fire break) - Blackmount.

Smoke chaser, tanker and portable dam deployed to fire break with ground crew (Hedgehope) 1 x dozer on standby (HM).

Monitor fire edge and contain where possible to minimise a run towards the "pinch point" fire break at peninsula.

Track in has been graded as exit route and 50 x 50 cleared safe area with dozer parked up.

9. Sector Communications	Phone	Radio Ch
Division/Division Cmdr		
Air Attack Supervisor		VHF4
Safety Officer		UHF2

Prepared by:	Date: 04/04/2022	Time: 17:30

3. Sector	4. Description			5. Division Assigned			
Heavy Machinery (HM)	Southern Edge 2	Zulu – Peni	pinch point				
6. Sector Supervisor	Affiliation	C	ellph	none	Radio Cl	า	
	South Roads				VHF 1		
7. Resources Assigned	this period						
Resource/Crew	Leader	# Perso	ons	Transport Required	Drop-off Point/ti me	Picku _l Point/ti	
Dozer (D65)							
				1			
				a C			
8. Sector Assignment /	Special Instruction	ns			•		
On standby. Dozer is p	arked in a 50 x 50 c	cleared safe	e zon	e. Ground cre	ws (Zulu) i	n support.	
9. Sector Communicati	ons	N	•		Phone	Radi	o Ch
Division/Division Cmd	r	11.					
Air Attack Supervisor	r					VH	HF4
Safety Office		•				UI	HF2

Prepared by:	Date: 04/04/2022	Time: 17:30	

Air Operations Plan

	Air Op	eratio	ns Plan	1			282
3. Personnel and Comm	nunications	200					
Position	N	lame	Affiliati	on Pho	ne	Radio Chan	
Air Div Commande	r						
Air Attack Superviso	r					VHF4	70,
Air Support Superviso	r					VHF4	
Lead Helicopter Pilo	t					VHF4	
Lead Fixed-Wing Pilo	t	N/A					O'
4. Air Resource Assignr	nents		•		•		
		Reg or		Tactical	Т	elephone	
Pilot Name/ Company	Aircraft Type	Call sign	Assignment	Freq/Chan		Numbers	
	AS350B3	ZK-HVA	А	VHF4	Onboard: Company:		
	MD369D	AK-IMT	PLATFORM	VHF4	Onboard: Company:		
	AS350B3	ZK-HNU	Z	VHF4	Onboard:		

יַן		71333023	ZK IIVX	~	•	Company:
		MD369D	AK-IMT	PLATFORM	VHF4	Onboard: Company:
		AS350B3	ZK-HNU	Z	VHF4	Onboard: Company:
		AS350B3	ZK-IMY	Z	VHF4	Onboard: Company:
		AS350B3	ZK-ITY	A	VHF4	Onboard: Company:
		BK117	ZK-IYY	A	VHF4	Onboard: Company:
ĺ		AS350B3	ZK-IDE	Α	VHF4	Onboard: Company:
		AS350B3	ZK-IRM	В	VHF4	Onboard: Company:
		BK117	ZK-HJK	В	VHF4	Onboard: Company:
Г	Polly Tank 1				V/LIE/I	

	0				
Name			Gı	rid Reference	
5. Location of Filling Po	ints/Service A	reas			
Belly Tank 2				VHF4	
Delly Talik 1				VIII4	

6. Safety Notes / Hazards / Radio Coverage Limitations

Air Traffic not required to be notified.

7. Air Operations Special Equip or Service

ZK-IYY designated rescue medivac helicopter. Pilot is

Prepared by:	Date: 04/04/2022	Time: 17:30
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Communications Plan

(Commur	nications RF205	s Plan				982
3. Radio Channels Assigned To	Function	Channel	Frequency	System		×	
Command		UHF2					
Ground Crews		VHF1					
Air to Ground		VHF4				~ '	
					. *.		
					70		
				٥٥)			
			. (
4. Telephone Assigned To	Landline	Cell phone	Fax	Comment	łc		
Assigned To	Laname	cen phone		Comment	.5		
		100					
	. 0						
	0,						
•	0,						
	•						
60							
0,5							
6. Other (e.g. email, Sa	tphone, etc)						

Ì	Prepared by:	Date: 04/04/2022	Time: 17:30	

Safety Plan

3. General Safety Points

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

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

LACES	Fire Orders	Watchouts			
LACES L - Lookout(s) A - Awareness - Anchor Point(s) C - Communication(s) E - Escape Route(s) S - Safety Zone(s)	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.	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			
4. Specific Safety Points					

4. Specific Safety Points

All crews, IMT and personnel on the incident ground, must follow all COVID processes:

- Mask must be worn when working in confined spaces
- Hand sanitiser should be used as and when required
- Crews to work in small bubbles and maintain a 1-meter separation where possible
- Fireground is wetlands with peat underfoot. Watch for ash pits and stay alert to exit routes through tangled scrub with limited visibility and rough swamp.
- Beehives are located in far W of Alpha (N) sector.
- Helicopters working overhead (9 machines).
- Surrounding area: Farmland to NW, Forestry block NNE, Southern flank runs to sea, key risk to avoid burn on southern flank into the Tiwai peninsula.
- Knockoff no later than 1800 ahead of sunset.

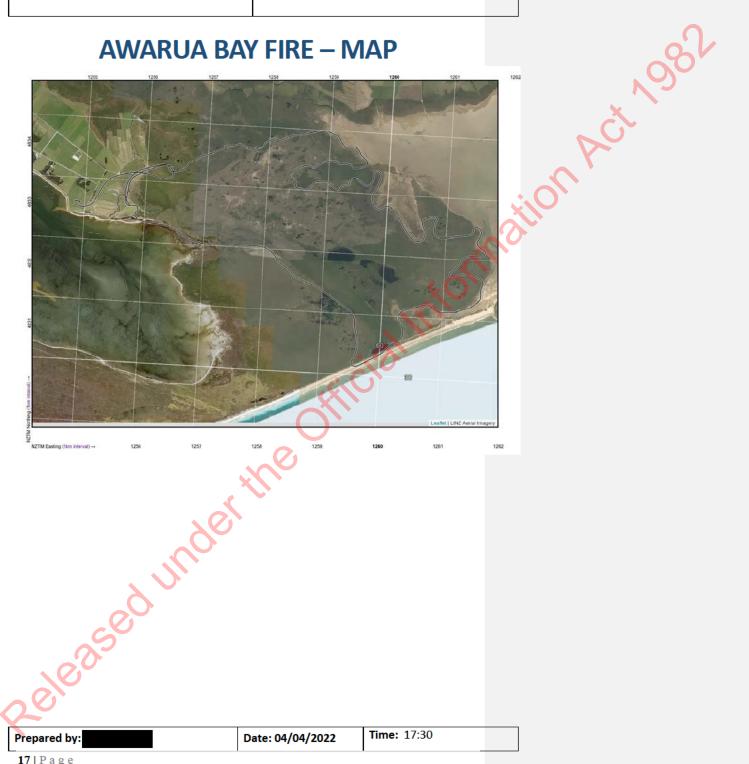
Prepared by	Date: 04/04/2022	Time: 17:30	

Medical Plan

	Medical Pla	an						ACIL 1982
3. First Aid Station			one/Radio		Paran			N 3
Name	Location	CI	hannel	av	ailable	at Sta	ıtion	X
Command Unit	Fwd control point	UHF	2					~ C)~
Invercargill Fire Station								
								~,
		_						
		+				_	X	
	+	+					(O)	
4. Transportation	Address	Ph	one/Radio)	Paran	nedics		
Ambulance Service	7.44.000		hannel				bulance	
Invercargill St John					XIC			
)				
5. Hospitals		Q		<u>Travel</u>	Time	Burn	Heli	
Hospital Name	Address	Ph	one	Road	Air	Unit	Pad	
Southland Hospital	Invercargill			30min				
	0							
	*//							
6. Special Emergency Procedu	ires							
ZK-IYY identified as medivac fo	or personnel as required	d. Pilot	is					
X								
			I					
8. Reviewed by Safety Advisor	r:		Date/Tim	ne: 4/4/	2022			

Prepared by:	Date: 04/04/2022	Time: 17:30	
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AWARUA BAY FIRE - MAP



Time: 17:30



INCIDENT ACTION PLAN AWARUA BAY FIRE

Operational Period: 5

Fire Day: 5

Date/Time from: 0800 6/4/22

Date/Time to: 0800 7/4/22



Approved by Incident Controller

Name: Date: 5/4/22 Signed:



Insert QR Code Here

Present your phone camera to this code or use a QR code reader app and it will download the IAP for your smartphone. This code does not change, so scan this tomorrow and you get the new IAP.

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Soctor Supervisors Depart	21

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Incident: AWARUA BAY FIRE

Operational Period: 24hrs

Fire Day: 5



Situation Report

Date/Time from: 0800 06/04/22 Date/Time to: 0800 07/04/22

. Location 2. Incident Type		3. Report Date/Time	3. NZ Topo50 Grid Ref and Address	
Awarua Bay	Vegetation Wildfire	2/4/22 17:48	N4832387 E1255989	

4. Assessment – current fire situation

- A large scrub (manuka/wetland scrub, grasslands) fire is currently burning estimated to be over 1369ha as at 1320 on 4/4/22 with a perimeter of 22km.
- The fire is currently not under control.
- Values at risk are property (Sheds, Mia Mias), wetlands, transmission lines providing power to Tiwai Point, and Tiwai Point smelter.
- No buildings have been destroyed/damaged by fire as of 1230 5/4/22, with 6 being at immediate risk, of which all have been classified as undefendable due to heavy vegetation fuel around them.
- The weather and conditions affected the current fire behaviour has been dominated by wind from the West and the Norwest and the fire progressing to the Easterly direction and into the water.

5. Actions Taken

- The initial fire suppression over the last 24 hrs have focused on aerial monsoon helicopter monsoon buckets focused on the fire fronts in sectors Alpha and Bravo, with 8 helicopters currently operating. A helibase has being established at the intersection of Awarua and Buddle Rd.
- Ground crews completed initial attack and structure protection around the fire origin. 7 ground crews have now been working in the Alpha sector blacking out.
- 3 Heavy equipment was deployed yesterday to start on control lines, with 1 bulldozer completing 1300m of line in Zule.
- Machinery fire control lines now extend around 5% of the fire perimeter.
- 1 water tankers have been providing water. Helicopters are operating out of water dams and pockets of water within the wetlands. 5.
- 6. Drones are being prepared to fly thermal flights on Wednesday weather permitting.
- Incident Management Team has been established at Tiwai Point 7.
- Public information is being released in 4 hourly intervals or as otherwise necessary. 8.
- Fire and Emergency NZ engaged positively with local iwi and tangata whenua today with no concerns.

6. Factors - what is affecting the way the fire is being fought or develops? Rain and high winds are predicted Weather 1. Fire Behaviour | 2. Benign for Wednesday if predicted 10mm of rain has fallen overnight. Increasing Thurs and Friday. Assets, Infrastructure 3. No assets or infrastructure are affecting firefighting activity's Satisfactory Resource Status Resource Availability Limited Other 7. Predicted Incident Development - next 12 / 24 / 48hrs 12hrs Wednesday- Rain from overnight, no perimeter growth. 24hrs Thursday, Limited perimeter growth Friday. Potential for limited growth as fuels dry out and wind increases. 48hrs 3.

FORM: RF201 Prepared by: Intelligence Unit Name: Date: 5/4/22 Time:1500

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Incident: AWARUA BAY FIRE

Objectives and Strategies

Operational Period: 24hrs Date/Time from: 0800 06/04/22
Fire Day: 5 Date/Time to: 0800 07/04/22

1. Overall Incident Objectives (SMART - Specific, Measurable, Achievable, Relevant, Time Bound)

- Safety of the responding personnel and public.
- 2. Minimise impact on property and critical infrastructure.
- 3. Minimise impact on cultural, environmental, historic and conservation values.
- 4. Working collaboratively with partner agencies, affected landowners, residents, stakeholders including local lwi.
- 5. Contain fire to current area. Mop up to 50m in Alpha in preparation for high winds
- Enable investigations into fire cause to be initiated and completed safely and in a timely manner.
- Tracking financial costs, monitor finances and report daily.
- 8. Planning operations to be balanced with outcome and relief/recovery.
- Undertake an after-action review

2. Strategies (Plan of Action to Meet Incident Objective)

zeleased under the

- A. Create a safety plan and safety briefing for all personnel (including contractors). Monitor and model fire behaviour.
- B. Use media, trusted community channels and stakeholders to establish comms and engagement through regular briefings and updates.
- C. Conduct asset (defendable and undefendable) and critical infrastructure identification through air surveillance and supporting spatial mapping datasets (powerlines, mobile towers, historic sites etc).
- D. Cultural, historical, environmental values identified on incident ground (actual and forecasted)
- E. Establish check in / check out, demobilisation resource tracking to enable financial reporting
- F. Create a recovery plan with community, stakeholders and partner agencies, all actions to consider impacts on the recovery plan.
- G. Secure adequate crews and supporting resources to meet objectives.
- H. Create a recovery plan with stakeholders and partner agencies. All actions to consider impacts on the recovery plan

FORM: RF202 Prepared by: IC > Error! Reference source not found.: Date: 5/4/22 Time: 1500

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Organisational List Date/Time from: 0800 06/04/22 Incident: AWARUA BAY FIRE

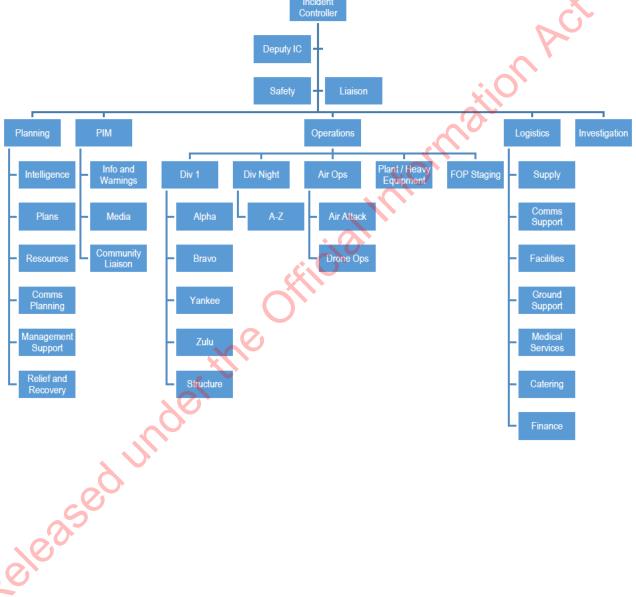
Operational Period: 24hrs Date/Time to: 0800 07/04/22 Fire Day: 5

Fire Day: 5				: 0800 07/04/22
1. Incident Control	Personnel	Mobile	Email Prefix	TIMEX
Incident Controller				
Deputy Incident Controller				
Safety Advisor				
Safety Officer (Field)				
Safety Officer (Field)				291
lwi Liaison Officer				100
Region / District Liaison Officer				
2. Agency Representative				
Police (@police.govt.nz)				
Civil Defence				
Agency Name				
Agency Name			• 0	
Agency Name			X	
3. Planning/Intelligence Section				
Planning Manager				
Intelligence Unit Leader				
Fire Behaviour Specialist				
Mapping Specialist				
Fire Observer/s				
Technical Advisor/s				
Plans Unit Leader				
Resource Unit Leader				
Management Support Unit Leader				
Communications Planning Leader	_ (X)			
4. Logistics Section	Personnel	Mobile	Email Prefix	TIMEX
Logistics Manager				
Finance Unit Leader	0,			
Comms Support Unit Leader				
Supply Unit Leader				
Medical Unit Leader				
Catering Unit Leader				
Ground Support Unit Leader				
5. Operations Section	Personnel	Mobile	Email Prefix	TIMEX
Operations Manager (Field)				
Ops Manager Planning (Deputy)				
Air Division Commander				
Air Attack Supervisor				
Air Support Supervisor				
Dept Air Support Supervisor				
Plant / Heavy Machinery Supervisor				
Forward Operating Point				
Division ONE Commander				
Sector ALPHA Supervisor				
Sector BRAVO Supervisor				
Sector YANKEE Supervisor				
Sector ZULU Supervisor				
Division NIGHT Commander				
Division NIGHT Commander Sector A-Z Supervisor				
Division NIGHT Commander Sector A-Z Supervisor 6. Public Information & Media				
Division NIGHT Commander Sector A-Z Supervisor 6. Public Information & Media PIM Manager				
Division NIGHT Commander Sector A-Z Supervisor 6. Public Information & Media PIM Manager Deputy PIM Manager				
Division NIGHT Commander Sector A-Z Supervisor 6. Public Information & Media PIM Manager				

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Media Unit						
Community Liaison Unit						
7. Relief and Recovery						
Relief Manager						
Recovery Manager						
8. Investigation						
Lead Investigator						
9. Regional Coordination Centres						
RCC						
Note: email suffix = @fireandemergency.nz TIMEX = date scheduled exit rostered deployment)						
FORM: RF203 Prepared by: Resources U	Init > [Name]	Da	ate: 1	ime:		

Active Incident Management Structure



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Sector Assignment 1-A Incident: AWARUA BAY FIRE

Operational Period: 24hrs

Date/Time from: 0800 06/04/22

Fire Day: 5				Dat	e/Time to Ubl	00 07/04/22	
1. Sector	2. Sector Supervisor				3. Division A	ssigned	
ALPHA					ONE		
4. Sector Description	North Flank of Fire						
5. Anchor Point / Refuge	ICP						
6. Resources Assigned th	nis Period (including Plant /	Heavy Equipme	ent)			~%	
Resource	Crew Leader	Mobile	Call Sign	Vehicle	#Persons	TIMEX	
Hyslops					14		
Wakari (Dunedin)					5		
7. Sector Assignment / Special Instructions							

Continue to black out to 50m

8. General Taskings

- Crews to travel in convoy to sector from staging area, all lights on, sirens generally not required.
- Allocate a crew responsibility to provide hourly kestrel fire behaviour readings to FOP
- Confirm L.A.C.E.S, test and update throughout operational period.
- S.Sup validate resources, contacts are current against IAP sector assignment, report errors.
- Ensure that a least one person on each crew is monitoring Air to Ground Radio CH to allow for contact with air operations.
- Roads requiring radio callups are posted at start of the road. (ref comms plan on requirements).
- Crews identify & communicate needs for next operational period to s, sup to review & pass resource requests & expected progress by end of shift to FOP (include additional or surplus resources, hazardous situations, significant events, progress).
- Crews and plant / machinery to sign out through staging area / FOP, All DTRs signed by supervisor and copy handed in to staging area (can email photo to FOP).

9. Reporting / Communication Instructions Time From / To Details 2hrs of Shift Start Crew.L to S.Sup Confirm L.A.C.E.S in place by each crew lead (incl plant and equipment) 2hrs of Shift Start S.Sup to FOP Confirm resources +/- compared to IAP, IAP errors, L.A.C.E.S in place 1/2 Shift - 0.5hr Crew.L to S.Sup Resources needed next ops period (Night or Day), expected to achieve this ops period At 1/2 Shift S.Sup to FOP Resources needed next ops period (Night or Day), expected to achieve this ops period Every 2hrs S.Sup to FOP C.A.N Report (important this includes detailed progress on actions) Every 1hrs Assigned Crew L to FOP Fireline Observations (from at least one crew leader per sector) Personnel Vehicle Radio CH 10. Sector Communications Mobile Call Sign Sector Supervisor **Division Commander** Air Attack Supervisor Plant/Heavy Equip Supervisor Forward Operating Point Operations Manager Operations Manager - Planning Safety Officer FORM: RF204 Prepared by: Operations > Error! Reference source not found. Date: 5/4/22 Time: 1500

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Sector Assignment 1-Z

Operational Period: 24hrs

Fire Day: 5

Date/Time from: 0800 06/04/22 Date/Time to: 0800 07/04/22

1. Sector	2. Sector Supervisor				3. Division As	ssigned
ZULU					ONE	
4. Sector Description						
5. Anchor Point / Refuge	Beach					
6. Resources Assigned th	is Period (including Plant /	Heavy Equipment)				
Resource	Crew Leader / Driver	Mobile	Call Sign	Vehicle	#Persons	TIMEX
DOC Crew 1			Doc 1		11	0)
					X	
7. Sector Assignment / Sp	pecial Instructions			•. ()	•	

Continue to black out to 50m

8. General Taskings

- Crews to travel in convoy to sector from staging area, all lights on, sirens generally not required.
- Allocate a crew responsibility to provide hourly kestrel fire behaviour readings to FOP.
- C. Confirm L.A.C.E.S, test and update throughout operational period.
- S.Sup validate resources, contacts are current against IAP sector assignment, report errors.
- Ensure that a least one person on each crew is monitoring Air to Ground Radio CH to allow for contact with air operations.
- Roads requiring radio callups are posted at start of the road. (ref comms plan on requirements).
- Crews identify & communicate needs for next operational period to s, sup to review & pass resource requests & expected progress by end of shift to FOP (include additional or surplus resources, hazardous situations, significant events, progress).
- Crews and plant / machinery to sign out through staging area / FOP. All DTRs signed by supervisor and copy handed in to staging area (can email photo to EOP)

area (can email photo to FOP).						
9. Reporting / Co	mmunication Instruction	s				
Time	From / To	Details				
2hrs of Shift Start	Crew.L to S.Sup	Confirm L.A.C.E.	S in place by each crew le	ad (incl plant	and equipment)	
2hrs of Shift Start	S.Sup to FOP	Confirm resource	s +/- compared to IAP, IA	Perrors, L.A.C	C.E.S in place	
1/2 Shift – 0.5hr	Crew.L to S.Sup	Resources neede	ed next ops period (Night o	or Day), expec	ted to achieve this	ops period
At 1/2 Shift	S.Sup to FOP	Resources neede	ed next ops period (Night o	or Day), expec	ted to achieve this	ops period
Every 2hrs	S.Sup to FOP	C.A.N Report (im	portant this includes detai	led progress o	n actions)	
Every 1hrs	Assigned Crew.L to FOP	Fireline Observations (from at least one crew leader per sector)				
10. Sector Comn	nunications Personnel		Mobile	Call Sign	Vehicle	Radio CH
Se	ctor Supervisor					
Divisi	on Commander					
Air At	tack Supervisor					Fire 4
Plant/Heavy Ed	quip Supervisor					
Forward	Operating Point					
Oper	Operations Manager Ops					Ops
Operations Man	Operations Manager - Planning					
Safety Officer Fire 2						
FORM: RF204 Prepared by: Operations > Error! Reference source not found.:- Date: 5/4/22 Time: 1500						

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FOP / Staging Assignment

Operational Period: 24hrs

Fire Day: 5

Date/Time from: 0800 06/04/22 Date/Time to: 0800 07/04/22

1. Resource / Crew 2. Forward Operating Point (FOP) Location [Hazmat Vehicle Name and Call Sign]

3. Assignment / Special Instructions

1.

4. General Taskings

- 1. Hazmat / ICU Unit provides shelter and working space for Ops Manager /Sector Supervisors/Safety
- Operational decisions and resource ordering are to be made by members of the IMT.
 - Resource requests to go on through to IMT Resources Unit.
 - Operational decisions referred to Operations Manager or Operations Planning Manager (Deputy Ops).
- 3. Receive fire ground notices from Operations Manager or IMT Members and broadcast around sectors to fire ground.
- Monitor quality of radios comms, request mobile repeaters or channel changes, ensuring all crews can be contacted. Manage / monitor schedule for battery changes on any mobile repeaters stationed in field.
- 5. Notify fire ground (Radio), Operations Manager (Radio/Phone) and Intel Unit (Phone/Email) if sudden change in observed weather.
- 6. Provide photocopy and printing capability for field staff.
- 7. Print and display key IMT information on internal and external display boards for operational staff reference.
- 8. Get weather and fire behaviour forecast from Intel as they become available and broadcast around sectors to fire ground.
- 9. Ensure a current fire map is displayed on external display for operations staff to reference. (FireMapper)
- Update T-Cards as resources move between sectors within Microsoft Planner Resource Board. (not set up yet) Query by Radio / Ph
 operations, S.Sup & Crew.L for missing T-Card / IAP contact details, names, timex dates, to ensure information is maintained and
 current.
- 11. Take photos of white boards or paper operational plan, send to Intel.
- Collect safety incident forms (Salmon Cards), scan and email to Safety Advisor, Operations, Intel.
- 13. Collect sector supervisor's reports at end of shift, scan and send to IMT.

4. Displaying Information

- Display T-Cards for Resources Microsoft Planner Board on large internal touch screen display.
- B. Display Latest Fire Map / Webmap on external large display, and on Internal Touch Screen as a tab in browser (with planner)
- Maintain printed copies of latest IAP, internal wall x2. External display x2.
- D. Maintain IMT structure white board with current incident control structure as per IAP.
- E. Display tower camera overview towards fire ground on rear internal display.

FORM: RF250 Prepared by: Operations > Error! Reference source not found.-

F. Display COVID19 Incident QR Code

5. Incident CHECK-IN / CHECK-OUT

1. Act as fire ground CHECK-IN ensure all crews and resources sign-in and out through the FOP as per Logistics Plan > #7 and #8

6. Reporting / Communication Instructions Time From / To 1hr of Shift Start FOP to Resources Confirm T-Cards updated with RF220, DTR signed in at Staging. Collate confirmation of L.A.C.E.S from Sector Supervisors (S.Sup). Confirm with Safety Advisor via 2hrs of Shift Start **FOP to Safety Advisor** teams fire channel chat. Prompt from S.Sup if not yet received. Every 2hrs FOP to Intel Collect CAN Reports from S.Sup, write up and send to Intel Unit via teams fire channel chat. Collate Fire Weather Observations from 1 crew leader per sector, collate and send viaemail to **Every 1hrs** FOP to Intel As required FOP to Fire Ground Broadcast sudden changes in observed weather or fire conditions. **FOP** to Fire Ground As required Broadcast weather forecast as provide by Intel Unit. As required FOP to Resources Pass on resource requests from fire ground S.Sup via teams fire channel chat. Collate resources (number of crews, machinery, equipment, supplies, specialists eg.tree fellers) At 1/2 Shift **FOP to Resources** suggested for next ops period (next Night or Day shift) from S.Sup for each sector send via teams fire channel chat FOP to Operations / Collate from each S.Sup what is expected /forecasted to be achieved this ops period/shift. Send via At 1/2 Shift Intel Request clarifying information not yet detailed in IAP (gap filing > correct names, call signs, contact FOP to Fire Ground As required details, TIMEX dates (end of deployment date), vehicles registrations / type) from resources across the fireground. Enter in Planner T-Cards. FOP to Intel Send photos of whiteboards, paper options analysis/plans as requested by email to Intel. As required Collect safety incident forms (Salmon Cards), scan and email to Safety Advisor As required FOP to Safety

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Date:5/4/22

Time:1500

Air Operations Plan

Operational Period: 24hrs

Fire Day: 5

Date/Time from: 0800 06/04/22 Date/Time to: 0800 07/04/22

1. Personnel and Commu	1. Personnel and Communications								
Position	Name	Email Prefix	Mobile	Radio CH					
Air Div. Commander				Fire 4					
Air Attack Supervisor				Fire 4					
Air Ground Support Sup.				Fire 4					
Drone Operations				Fire 4					
Supervisor				11164					
Lead Helicopter Pilot									
Lead Fixed-Wing Pilot									
Lead Drone Pilot			•						

2. Air Resource Assignments

Z. All Nosource Assign	IIIOIIIO				
Pilot Name/Company	Aircraft Type	Regis. or Call Sign	Assignment	Tactical Freq/CH	On-board Mobile
	B3	ZK-HVA	Z	Fire 4	
				X	
	B3	ZK-ITY	В	Fire 4	
			(0)		
	B3	ZK-IDE	Ret	Fire 4	
	B3	ZK-IRM	Ret	Fire 4	

3. Location of Filling Points / Service Areas

Name	Details	$\langle \ $	Grid Reference (NZTM / Decimal LAT.LONG)
Heli base	Sea and pond with in wet lands		

4. Safety Notes / Hazards / Radio Coverage Limitations / Temporary Airspace Restrictions

- Any known hazards eg power-lines, high obstacles
- 2. Record if any radio 'dead spots' are known or expected
- 3. Drone operations will be operational from HHMM-HHMM in [sectors X], Drone pilots will be monitoring both air-air channels and air-ground, with temporary MBZ-10mins in place for drone operations occurring if manned aircraft are operational.

5. Air Operations Special Equipment or Service

- Air operators are to supply own fuel to meet their requirements.
- Make note of any special equipment or services required: eg High-volume pumps, or Police for crowd control, access to fuel, RPAS/Drone operations etc.

6. Special Instructions

RPAS / Drone Operations for Hot spotting

- Drone operations will be tasked in coordination with the Intelligence Unit Leader, and tasking appear within the sector assignments.
- Request a fly over, marking hots, rechecking existing FireMapper Hotspots from previous night, and any identified on Firemapper by ground crews using handheld TIC.
- Fly perimeter of fire and map new hotspots within +/-30m of perimeter.
- Upload to 30m perimeter hotspots to Fire Mapper by XXXhrs in prep for map available for 0XXXhr Ops Briefing.

DEGOOD II A. D O I . F IB. () (I I	D (т.
RF208 Prepared by: Air Division Commander > Error! Reference source not found.	Date:	Time:

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Incident: AWARUA BAY PLAN

Communications Plan

Operational Period: 24hrs

Fire Day: 5

Date/Time from: 0800 06/04/22 Date/Time to: 0800 07/04/22

Please communicate any radio coverage issues to Logistics > Communications Support Unit immediately									
1. Radio Channels									
Operations	Function		Radio Cha	annel		Fre	equency (TX/	RX)	UHF/VHF
	Command		OPS						UHF Simplex
	Ground Cr	ews	FIRE 1						VHF Simplex
Fire Operations									0
									0
	Ground to	Air	FIRE 4						VHF Simplex
									X.
Air Operations							•		
								1	
Structure Protection									
					_				
Call up roads						\			
Plant / Equipment	Ground Cr	YOUNG.	FIDE 4					_	
Plant / Equipment Police	Glound Ci	ews	FIRE 1	<u> </u>)			
Cordons								_	
Rescue Heli.	Ground to	Λir	Interagence	y Liaison (CH10	Λ.				VHF
2. Portal Radio Repe		All	interagent	y Liaison (Crito					VIII
Z. POITAI NAUIO Nepe	alers			Batteries / C	har	raina			
Name	Location		- c. (Requiremen		ging	Managed E	y	
			- (//)	- requirement	•		Command I	Init	
3. Document Manag	ement (doc	cument locations, online	or offline su	veteme)			Communa	J1111C	
System	Details	differit locations, offiling	or office sy	/sicilis/	C	omments			
IMT Microsoft 365		01			FENZ Microsoft SharePoint and Microsoft Teams				
Team	R5A Office	e 365							notos and chat
Incident Channel							,	,,	
Name									
Situation Board URL		70,							
Planner T-Cards									
Photos and Video									
Upload					L				
4. Internet Access	À								
Access Point	SSID					etails			
ICP		nmand or FENZ_Case0			_	• •		· IMT	personnel only]
FOP / Staging		nmand or FENZ_Case0			_		ble at FOP]		
5. Weather Stations (email, sms, social media, chat group, weather station URL's, other than listed in organisational list)									
Name	me Details for Access Location								
6. Telephone / Satellite Phones or Messengers (other than listed in organisational list)									
Name Mobile / Channel Type Comments									
7. Other (email, sms, social media, chat groups, other than listed in organisational list)									
There is communication issues on site. Please liaise with Ops to check com plan.									
RF205 Prepared by: Communication Support Unit > Error! Reference source not Date:									
found.						Date:		TITLE	

Safety and Wellbeing Plan

 Operational Period: 24 Hours
 Date/Time from: 0800 06/04/22

 Fire Day: 5
 Date/Time to: 0800 07/04/22

1. General Safety and Wellbeing Points

ALWAYS REMEMBER YOUR L.A.C.E.S								
L	Α	С	E	S				
Lookout(s)	Awareness or Anchor Points	Communication	Escape Routes	Safety Zones				

10 Standard Firefighting Orders

- Keep informed on fire weather conditions and forecasts.
- 2. Know what your fire is doing always.
- Base all actions on current and expected fire behaviour of the fire.
- Identify escape routes and safety zones and make them known.
- Post lookouts when there is possible danger.
- Be alert. Keep calm. Think clearly. Act decisively.
- 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 always.
- Fight fire aggressively, having provided for safety first.

Dangerous Situations to Watch Out For

- 1. Fire size is unknown (no size up).
- Unfamiliar territory.
- 3. Safety zones and escape routes not identified.
- Unfamiliar with weather and local factors influencing fire behaviour.
- No communications link with crew members or supervisor.
- Instructions and assignments not clear.
- Weather is getting hotter, drier and relative humidity dropping.
- 8. Wind increases and/or changes direction.
- 9. Getting frequent spot fires across the line.
- 10. Working uphill or down wind of a fire.
- 11. Working on a steep slope.
- Working in rugged terrain.
- Cannot see main fire.
- In unburnt vegetation.
- Walking through hot ashes.
- Working alone.
- Getting tired.
- 18. Working near power lines.
- 19. Working near machinery.
- 20. Working with aircraft.
- 21. Working around trees or spars.

Confirm L.A.C.E.S with crew, and supervisor within 2hrs start of shift

Everyone is to be signed in and out of the fire ground through the FOP / Staging for both safety check and payment records Maintain regular C.A.N (conditions, actions, needs) reports to line supervisors at agreed interval as per sector assignment. Single resources not assigned to a division / sector will do C.A.N reports with FOP every 2 hours while on fire ground.

Provide corrections/updates to IAP resources, contacts, communication, update maps to include safe zones, escape routes to ensure it is maintained for safety for following operational shifts

2. Specific Safety and Wellbeing Points

- All crews to have adequate food, water, PPE to manage fatigue and hydration.
- Work rest periods enforced. 9hr rest period before returning to fire ground. Crews travelled >3hrs must have 4hr stand down.
- Seek shade during rest period, be sun smart.
- 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.
- Avoid skid sites where stability of surface cannot be assured.
- Eliminate / minimise working in smoke and or traveling in smoke.
- Ensure safe distance from all heavy machinery

4. Management of Dangerous Trees

- · Big trees with root plates compromised in Sector
- Dangerous tree assessors ensure competent and equipped for task (including PPE).

RF209 Prepared by: Safety Advisor > Error! Reference source not found. Date: Time:

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Operational Period: **24 Hrs** Fire Day: 5



Incident Specific Hazard Board

Date/Time from: 0800 06/04/22 Date/Time to: 0800 07/04/22

	RD REGISTER		RISK ASSE	SSMENT					Likelihood	11110 10. 0000 0110 1122
									SCORE CHANCE OF SOM	ETHING HAPPENING
Haz#	Hazard	Location	Control Measure	Likelihood	Consequence	Risk	Adequate Control	IC Aware	1 RARE	Mayoccurin exceptional circumstances < 10%
1	Working with Aircraft	A, B & Z	Air attack and air support	4	1	High	Υ	Y	2 UNLIKELY	Could occur 10 to 30% chance Might occur 30 to 70% chance
2	Working around aircraft	Alpha	Working safely around aircraft	4	2	High	Y	Υ	3 POSSIBLE 4 LIKELY	Will probably occur 70 to 90% chance
3	Peat and ashpits	Alpha	Crew leaders & firefighter aware	3	1	Low	Y	Υ	5 ALMOST CERTAIN	Is expected to occur >90% chance
4	Winds running fire	Fire Ground	Light winds – rain at 1500 – increasing winds 1800, 40- 50kph	3	1	Low	Υ	Y	Consequenc	e
5	Smoke	Fire Ground	Stay and work in clear air	1	2	Low	Y	Υ	SCORE DESCRIPTOR	EXAMPLES
6	Comms Diminishing with distance	All Ground Crews	Fire 1, ground crews. Use Fire 4 via air ops as needed. VHF Repeater	3	1 (0	Low- Medium	Υ	Υ	1 INSIGNIFICANT 2 MINOR	Insignificant injury or damage/loss to equipment Minor injury; minor loss/damage to
7	Driving on sand/beach	Fire Ground	Watch depending on ops strategies	2	1	Low	Υ	Y	3 MODERATE	equipment Serious injury (e.g. hospital, off work), moderate ioss of equipment
									4 MAJOR	Multiple serious injuries (e.g. permanent disability: major loss of operational capability
8	Escape Routes	Fire Ground	Plan ahead. Try and have more than one escape route	3	3		Y	Y	Mediam Ensure con Where the Risk Rating MU High Control me suitably tra	Fatality (one or more) to staff: catastrophic loss of operational capability 2 3 4 5 AT MACE WOOSTATE WALDS CATATORIC THIS PROPERTY HIGH Very High Low Medium High Very High Very High Low Medium High Very High High Very High Low Medium High Wery High Low Medium High High Very High Low Medium High High Werter Wert
9	Working with Heavy Machinery Beehives	Zulu Alpha (W Edge)	Keep your distance and lookouts Crews notified 1230 + all confirmed	2	3	Medium Low	Y	Y	ALL HAZARI	OS TO BE REVIEWED LY (HRLY, DAILY)
11	Covid	All All	If any ground crew or air attack feel unwell, to attend Tiwai RAT testing station between 0730 and 1530. IMT temperature check on entry at Tiwai including visitors. Any	3	3	LOW	•			

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			new crew to be separated during briefing and operationally where practicable.					G	5			
12	Wind Gusts up to 90kph	All	Weather forecast 50kph sustained, gusting 90kph midday. Early decision by ops for extraction of crews by heli.	4		High		0)				
FES2	FES262 Prepared by: Safety Advisor > Error! Reference source not found.							Da	ate:	Time:		

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Incident: AWARUA BAY FIRE
Operational Period: 24 Hrs

Medical Plan

Date/Time from: 0800 06/04/22 Date/Time to: 0800 07/04/22

Fire Day: 5	
1 First Aid Desourage / Stations (anch grow must have available one first aid level 1 certified	iod\

Name	Location	on Mobile / Radio CH							
Defibrillator/s	Command Unit	Fire 2	0						
Co-response First-aid Kits	Command Unit	Fire 2	0						

2. Transportation

Ambulance Service	Address	Mobile / Radio CH	Paramedics avail.
St Johns		111	
Rescue Helicopter		111 / Interagency Liaison (CH10)	

3. Hospitals

511155 pitalis							
Hoopital Nama	Address	Phone	Travel Time	(min) \	Burn	Heli
Hospital Name	Address	Filone	Road	Air		Unit	Pad
Southland Hospital		03 218 1949	* . ([Y/N]	[Y/N]
			X			[Y/N]	[Y/N]

4. Special Emergency Procedures

All injuries are to be reported to the sector supervisor (or FOP as backup) immediately. Emergency, Safety Advisor and IMT will be notified by supervisor ASAP (or FOP).

- · All crews should have first aid kits.
- · Crew first aid attendant will assess injury and treat.
- Request for transport will be made through sector supervisor (or FOP as backup). In most cases requiring transport to medical
 centre, ground transport on unpaved roads is advised against and heli should be requested.
- Sector supervisor will ensure necessary incident reporting (Salmon card) completed & provided to Safety Advisor.
- Safety advisor will record all incident in Safe@Work

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RF206 Prepared by: Logistics Unit > [Name] Date: Time:

Template Version: 2020A Print Date and Time: 5/04/2022 5:31:28 PM Page 14 of 22

Logistics Plan Incident: AWARUA BAY FIRE Date/Time from: 0800 06/04/22 Operational Period: 24hrs Fire Day: 5 Date/Time to: 0800 07/04/22 1. Facilities Incident Control Point Tiwai Point Smelter, Office Check in / Assembly Area Command Unit Staging Area Corner of Awarua Bay Rd and Buddle Rd Forward Operating Point Heli/Airbase At Staging Area Toilets At Staging Area 2. Accommodation (email Logistics Unit or call Facilities Unit Leader for any queries related to accommodation) Accommodation **Allocated Resources** Various Invercargill Locations Various Various 3. Flights, Transportation, Parking, Vehicle Maintenance and Refuelling Transport Flights Airport to Check in Accommodation to Staging Rental Vehicles One rental vehicle (retardant crew) returning home Maintenance of Appliances Safety using Salmon Cards All appliances are to be filled using FENZ fuel cards Refuelling Parking All vehicles parked at dedicated parking areas 4. Catering No specific arrangements have been made Dinner Lunches provided by Rapid Response Team (RRT) dropped at ICU (packed lunch) Lunches Breakfast No specific breakfast arrangements 5. Supplies Pump Fuel / 2-Stroke is keeping/providings stocks Drinking Water/ Hydration Water at ICP and at staging area Pwdr Additional request of 140 20L containers plus 2 extra pallet Class A Foam / Soap Caps. Radios Uniform and Laundry 7. Instructions for Mobilisation of New Incoming Resources All new incoming resources are to report to Check in / Assembly Area for check in. Will be allocated Check In resources, accommodation and supplies as needed.

8. Demobilisation of Outgoing Resources

Check Out

- All resources which are ending their deployment on the fire ground must complete relevant paperwork. This will be done at Check in / Assembly Area by the Resources Unit.
- 2. A check of your DTR's must be completed by the Finance Unit, ensuring all are complete and signed by supervisor.
- 3. Ensure all injury or equipment claims are well documented and complete.
- At any time during the demobilisation process if there is any concern, contact the Resources Unit Leader

RF249 Prepared by: Logistics Unit > [Name]

Date:

Time:

Incident: AWARUA BAY FIRE

Operational Period: 24 Hours

Fire Day: 5

Public Information Plan

Date/Time from: 0800 6/4/22 Date/Time to: 0800 7/4/22

1. Overview of PIM Response

Key messages are that Southland is very dry and a reminder not to light fires. Objective is to contain the fire. No houses or property is threatened. 1350 hectares/26km perimeter. Key stakeholders Environment Southland, Iwi, Department of Conservation, Rio Tinto, Invercargill City Council (tuatara), Southland District Council and the farming community. Updates provided the Fire and Emergency - Southland Facebook page. Taking water from tarns in the wetlands and the sea. Tarn water is being applied to the same catchment surrounding land. Important to prevent further damage to the internationally significant wetlands. Currently investigating the cause of the

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fire. Wildlife response, how to res Control Centre	spond to wildlife encou	intered by ground cr	ew, opportunity for DOC personne	el to support via Forward						
2. Personnel and Communications										
Position	Name	Phone	Email Prefix	Affiliation						
Public Information Manager				FENZ						
Deputy PIM Manager				FENZ						
Information and Warnings Unit										
Media Unit										
Community Liaison Unit										
Spokesperson – [Topic]				FENZ						
Spokesperson – [Topic]				25						
3. Public Meetings										
Meeting Purpose	Location	Time	Contact Person	Phone						
Face to Face Community	Tiwai Smelter	Ongoing		via email						
Meeting	lwi	Conversation		via ditian						
Broadcast Community Meeting	Email Community Groups	Ongoing	(Environment Southland)							
On-air Radio Meeting										
			• •							
5. Public Information Source	s (details of the speci-	fic sites or types)	XIC							
Websites										
Social Media	Fire and Emergency	Southland,	, update	es on the fire.						
Helpline										
Information Points										
Community contacts/meetings										
Other – Posters / Handouts /										
SMS										
5. Media Message Distribution	on (specific stations or	publications)								
Radio										
TV										
Newspaper										
6. Media (schedule)		() ,								
Media Briefing/Conferences Media Site Visits										
		}								
Interviews 7 Massage Manitoring										
7. Message Monitoring										
8. Personal Social Media Wa	rning /Treat as Public	o Information and D	n Not Doot\							
			n be republished by friends, other	neonle and media. Vou						
			a public statement. Even if you're o							
private messaging or just to your				on marined and a model						
DE247 Propaged by: DIM Manage	Y	Dato: 06/04/								

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Fire Behaviour and Weather

Operational Period: 24 Hours

Fire Day: 5

Date/Time from: Error! Reference source not

Date/Time to: 0800 07/04/22

1. Weather Forecas	st
Situation	Long spell of dry weather. Potential for showers over the next 2 days coupled with a very strong SW wind.
This Shift: Wednesday.	Probability of a few showers throughout the day, less than 5mm. Wind W turning SW in the morning at 40 to 50km/hr sustained, Gusting 80 to 90km/hr. (Possibility of stronger wind around mid-day) Wind to drop late afternoon to 30km/hr, gusting 60 km/hr. High of 11 degrees, RH 65%.
Looking Ahead:	Thursday, chance of a possible light shower, SW going W around mid-day, 15 to 20km/hr, increasing 25 to 30km/hr in the evening. Gusting 40 to 45 km/hr. High of 13 degrees, low RH of 55%. Outlook- Friday possible chance of a shower, W 35 to 45 km/hr gusting 80km/hr. 15 degrees. Rh low of 55%

2. Fire Behaviour Forecast (1200 NZST)

Zi i iio Zonavioai i orodati (1200 ii.201)											
STATION	TEMP	RH	WD	WS	PRECIP	FFMC	DMC	DC	ISI 🦰	BUI	FWI
Tisbury											
5/04/22 Actual 1200hrs	19	71	352	9	0	81.6	27	468	2	47	6
6/04/22 Forecast	11	65	250	50	10	59	14	429	4	26	7
7/04/22 Forecast	13	55	250	20	0	76	15	432	2	27	5
Other RAWS											
5/04/22 Actual 1200hrs Southland portable)	19	63	WSW	11	0		~?				

3. General Fire Behaviour

Fire behaviour today should be reasonably benign if the predicted 10mm of rain was received last night. We have a very strong chance of achieving the 10mm of rain.

Fire behaviour is likely to be restricted so a low level of surface burning only, some limited candling and no crown runs. No fire perimeter growth is expected.

The wind direction is pushing the fire out towards the Bravo edge and the water.

The big concern would be any runs from the SE which could jump the Alpha break and move north. This is very unlikely if we have received the 10mm of rain overnight. Without rain, the fire behaviour will be extreme with a FROS more than 3km/hr and HFI greater than 40,000 Kw.

Any runs in this direction without rain would be unstoppable.

Given the DMC and DC this fire is likely to be deep seated and mop could be extensive. It appears that the fire is not that deep into the peat layers

4. Specific Fire Behaviour (assumed no suppression)

FUEL TYPE	ROS / HEAD FIRE INT. / FLAME LTH	PEAK ROS / HEAD FIRE INT. / FLAME LTH
Manuka/Kanuka	900m/hr. 12,000Kw/m, 6m flame length.	ROS if no rain 3km/hr, 40,000 Kw.

5. Specific Activities

[eg.

6. FIRE BEHAVIOUR SAFETY ADVISORY

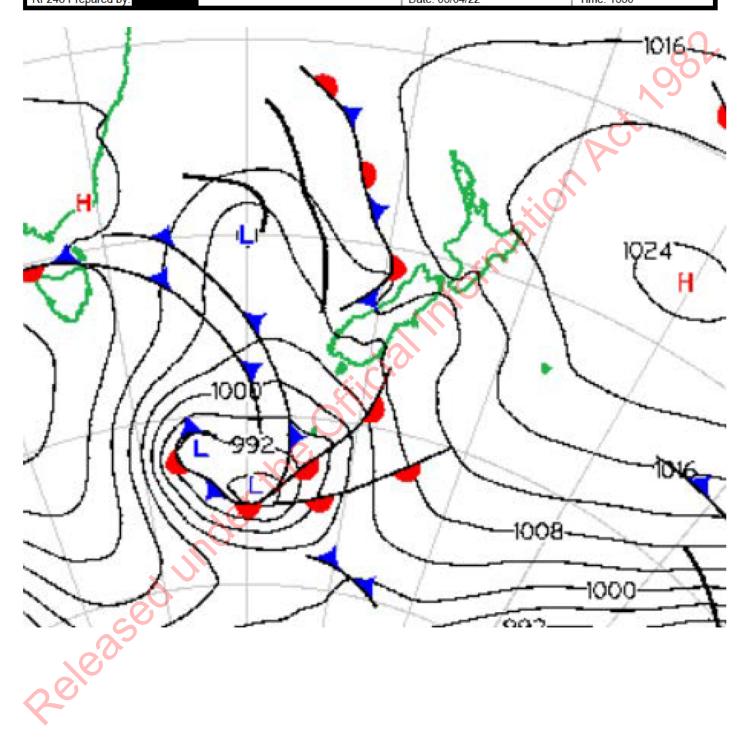
NO safety advisory for fire behaviour unless we do not receive rain.

RF248 Prepared by: Jamie Cowan Date: 5/04/22 Time:15:30

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

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Incident: AWARUA BAY FIRE			Weather Map
Operational Period: Error! Reference source not fou	und.		Date/Time from: 0800 06/04/22
Fire Day: 5			Date/Time to: 0800 07/04/22
1. Forecast Weather Maps			
RF248 Prenared by:	Date:	05/04/22	Time: 1530



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Fire Maps and QR Codes Incident: AWARUA BAY FIRE Operational Period: Error! Reference Date/Time from: 0800 06/04/22 source not found. Date/Time to: 0800 07/04/22 Fire Day: 5 1. Using QR Codes for 2. Using QR Codes for FireMapper (Live / Offline Map) Avenza Maps Download Avenza Maps Download FireMapper for Enterprise app on iOS and Android. If you do not have a license Scan the Temporary License Code or Enter Code directly into app on IOS and Android. FireMapper User Profile (and update your details). Shared Maps should be available for the incident. Scan the following codes to access digital maps you can TEMPORARY FIREMAPPER LICENSE navigate with. CODE: These codes generally do URL: not change, therefore to get QRCODE: tomorrow's map you can scan the old map coded. Present a smartphone camera to see these codes WEBMAP: or scan using QR code app. 3. Fire Maps (overview and QR codes) 4. Evacuations Maps (overview) 4. QR Codes for Other Information (weather stations) 5. QR Codes for COVID19

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Incident: AW/	ARUA B	AY FIR	E		L	ogl	oook /	F	ireline (Obs	ervations
Operational F Fire Day: 5									e from: 0800 06/04/22 ime to: 0800 07/04/22		
Do not leave b	lank line	s betwee	en entries.	Provide	e to your	supervi		er e	ach day. Include any		instructions, & actions. requests submitted and
1. IMT Unit / D			2. Name		unue rec	Joius. (II	VII FURIVIS KE		3. Role / Crew / Re	source	
								T			
4. Time	5. T/R/	V 6.1	lotes				7. Actions				
											0,0
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							(0)				
							(10)				
					0	,					
					6						
		_									
				0							
8. Fire Weath	er & Beh	aviour (Observati	ons WE)=wind (direction	(mag.deg) WS=	=ha	ndheld wind speed(l	(mh) F.LTI	H=flame length(m)
Location	Time	TEMP	RH	WD	ws	Fire F	ront Location		Fuel Type	F.LTH	Comment
		O									
	C										
. 0	0										
&											
•											
Checked by:				l Cł	necked	Date/Ti	ime:		Actioned	bv:	

Sector Supervisors Report

Operational Period: Error! Reference source not

found. Fire Day: 5

Date/Time from: 0800 06/04/22 Date/Time to: 07/04/22

Sector supervisors to complete form & provide to division commander, end of shift. Attach map marked with progress of work completed												
during the shift (can be emailed to intelligence unit or completed in FireMapper), additional hazards or features including safe zones, escape routes, or mapping errors should be added. Tick that DTRs DVRs have been signed. Add extra pages as needed.												
escape routes												
1. Division	2. Sector	3. S	ector Superv	isors Name		4. Map Attached / Updated	5. Extra Notes Attached	6.Incident Reports				
						Y / N	Y / N		70.			
7. Crews on S	7. Crews on Sector (including resources (tree fellers etc), attach paper map or email map to Mapping Specialist with action progress)											
Call Sign	Crew Leade	er	#Persons	Comments on Acti	ons Com	pleted	Needs	×	DTRs			
									Y/N			
									Y/N			
									Y/N			
									Y/N			
							• ()		Y/N			
8. Appliances	/ Vehicles Used	on S	ector				X					
			iver Name Crew Comments / Maintenance									
Registration	Type	Driv	er Name	Crew	Comme	ents / Mainter	ance		DVRs			
Registration	Туре	Driv	er Name	Crew	Comme	ents / Mainter	ance		Y/N			
Registration	Туре	Driv	er Name	Crew	Comme	ents / Mainter	ance		Y/N Y/N			
Registration	Туре	Driv	er Name	Crew	Comme	ents / Mainter	ance		Y/N Y/N Y/N			
Registration	Type	Driv	er Name	Crew	Comme	ents / Mainter	ance		Y/N Y/N			
Registration	Type	Driv	er Name	Crew	Comme	ents / Mainter	ance		Y/N Y/N Y/N			
				Crew paper map or email m		HOY		58)	Y/N Y/N Y/N Y/N			
		ed on			ap to Map	oping Speciali			Y/N Y/N Y/N Y/N			
9. Plant / Hear	vy Machinery Us	ed on	ı Site (attach	paper map or email m	ap to Map	oping Speciali	st with action progres		Y/N Y/N Y/N Y/N Y/N			
9. Plant / Hear	vy Machinery Us	ed on	ı Site (attach	paper map or email m	ap to Map	oping Speciali	st with action progres		Y/N Y/N Y/N Y/N Y/N			
9. Plant / Hear	vy Machinery Us	ed on	ı Site (attach	paper map or email m	ap to Map	oping Speciali	st with action progres		Y/N Y/N Y/N Y/N Y/N DTRs Y/N			
9. Plant / Hear Registration	vy Machinery Us	ed on	ı Site (attach ivers Name	paper map or email m	ap to Map	oping Speciali ent on Work (st with action progres Completed / Any Ne	eds	Y/N Y/N Y/N Y/N Y/N DTRs Y/N			
9. Plant / Hear Registration	vy Machinery Us	ed on	ı Site (attach ivers Name	paper map or email m	ap to Map	oping Speciali ent on Work (st with action progres Completed / Any Ne	eds	Y/N Y/N Y/N Y/N Y/N DTRs Y/N			
9. Plant / Hear Registration	vy Machinery Us	ed on	ı Site (attach ivers Name	paper map or email m	ap to Map	oping Speciali ent on Work (st with action progres Completed / Any Ne	eds	Y/N Y/N Y/N Y/N Y/N DTRs Y/N			

11. Comments for Next Shift / Next IAP - IAP or map errors, contact detail updates for IAP, check missing resource TIMEX updates (end date of current deployment period for resource), resource needs notified at ½ shift (use prompt table below), notes on improving tasking descriptions, map additions, crews work recommendations / comments - continue on reverse of this page as needed.

	Active/Used	Next Shift
Crews 5PK		
Tree Fellers		
41mm Hose		
70mm Hose		
Dozer		
Mech.Feller		
Digger		
Dam		
Radios		
Foam 20L		
Soap Cap		
Wajax		
Med Pump		
Tanker		
4WD Ute		
LUV/ATV		
Appliance		

RF249 Checked by: Check Date/Time: Actioned by: Released under the Official Information Act. 1982.

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INCIDENT ACTION PLAN AWARUA BAY FIRE

Operational Period: 6

Fire Day: 6

Date/Time from: 0800 7/4/22

Date/Time to: 0800 8/4/22



Approved by Incident Controller

Name: Date: 6/4/22 Signed:





Fire Mapper QR Code See attached sheet 18 for more detail's

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Operational Period: 24hrs

Fire Day: 6



Situation Report

Date/Time from: 0800 07/04/22 Date/Time to: 0800 08/04/22

1. Location	2. Incident Type	3. Report Date/Time	3. NZ Topo50 Grid Ref and Address
Awarua Bay Fire	Vegetation Wildfire	6/4/22- 1230	N4832387 E1255989

4. Assessment – current fire situation

- A large scrub (manuka/wetland scrub, grasslands) fire started on Saturday the 2nd and is currently burning around 1369ha as at 1200 on 6/4/22 with a perimeter of 22km.
- 2. The fire is currently controlled to 20% to 10m and 5% to 30 m. The fire is 0% Contained
- Values at risk are property (Sheds, Mia Mias), wetlands, transmission lines providing power to Tiwai Point, and Tiwai Point smelter.
- 4. No buildings have been destroyed/damaged by fire as of 1230 5/4/22, with 6 being at immediate risk, of which all have been classified as undefendable due to heavy vegetation fuel around them.
- The fire ground had 30mm of rain overnight. (Tue/Wed)
- 6. It is unlikely that the perimeter will increase today, however given the scrub fuels this is not a given.

5. Actions Taken

- The initial fire suppression focused on aerial monsoon buckets focused on the fire fronts in sectors Alpha and Bravo. No helicopters
 operated yesterday due to high winds.
- 2. Ground crews completed initial attack and protection around the fire origin. 31 Fire fighters started yesterday morning but pulled out by lunch time due to adverse weather. Focus has been on Alpha sector blacking out to 50m.
- 3. Heavy equipment has constructed a control line, 1300m of line has been made to stop possible spread towards Tiwai Point
- 4. Helicopters are operating out of water dams and pockets of water within the wetlands.
- 5. Drones are being prepared to fly thermal flights on Monday 11th April weather unlikely to be favourable till then.
- 6. Incident Management Team has been established at Tiwai Point
- 7. Public information is being released in 4 hourly intervals or as otherwise necessary.
- 8. Fire and Emergency NZ have been engaging with local iwi and tangata whenua today with no concerns

o. File an	Fire and Emergency NZ have been engaging with local iwi and langula whentia today with no concerns.				
6. Factors	6. Factors – what is affecting the way the fire is being fought or develops?				
		Weather	1.	High winds are predicted on and off for the next 3 days with little rain.	
Fi	re Be	haviour	2.	Increasing Thurs and Friday.	
Assets, I	nfras	tructure	3.	None lost, several threatened.	
Res	ourc	e Status	4.	Satisfactory	
Resource Availability 5. Limited					
		Other			
7. Predicte	ed In	cident De	vel	opment – next 12 / 24 / 48hrs	
12hrs	2hrs 1. Thursday. Limited perimeter growth expected				
24hrs	2.	Friday, po	otent	ial for limited perimeter growth. Some high winds expected.	
48hrs	3.	Saturday.	Pot	ential for limited growth.	

FORM: RF201 Prepared by: Intelligence Unit Name: Date: 6/4/22 Time:1500

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Objectives and Strategies

 Operational Period: 24hrs
 Date/Time from: 0800 07/04/22

 Fire Day: 6
 Date/Time to: 0800 08/04/22

1. Overall Incident Objectives (SMART - Specific, Measurable, Achievable, Relevant, Time Bound)

- Safety of the responding personnel and public.
- 2. Minimise impact on property and critical infrastructure.
- 3. Minimise impact on cultural, environmental, historic and conservation values.
- 4. Working collaboratively with partner agencies, affected landowners, residents, stakeholders including local lwi.
- 5. Contain fire to current area. Mop up to 50m in Alpha in preparation for high winds
- 6. Enable investigations into fire cause to be initiated and completed safely and in a timely manner.
- 7. Tracking financial costs, monitor finances and report daily.
- 8. Planning operations to be balanced with outcome and relief/recovery.
- Undertake an after-action review.

2. Strategies (Plan of Action to Meet Incident Objective)

Released under the

- A. Create a safety plan and safety briefing for all personnel (including contractors). Monitor and model fire behaviour.
- B. Use media, trusted community channels and stakeholders to establish comms and engagement through regular briefings and updates.
- C. Conduct asset (defendable and undefendable) and critical infrastructure identification through air surveillance and supporting spatial mapping datasets (powerlines, mobile towers, historic sites etc).
- D. Cultural, historical, environmental values identified on incident ground (actual and forecasted)
- E. Establish check in / check out, demobilisation resource tracking to enable financial reporting
- F. Create a recovery plan with community, stakeholders and partner agencies, all actions to consider impacts on the recovery plan.
- G. Secure adequate crews and supporting resources to meet objectives.

FORM: RF202 Prepared by: IC > Error! Reference source not found.: Date: 6/4/22 Time: 1600

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Organisational List Date/Time from: 0800 07/04/22 Incident: AWARUA BAY FIRE

Operational Period: 24hrs Date/Time to: 0800 08/04/22 Fire Day: 6

			Date/Time to	
1. Incident Control	Personnel	Mobile	Email Prefix	TIMEX
Incident Controller				
Deputy Incident Controller				
Safety Advisor				
Safety Officer (Field)				
Safety Officer (Field)				9
lwi Liaison Officer				
Region / District Liaison Officer				
2. Agency Representative				
Police (@police.govt.nz)				
Civil Defence				
Agency Name				
Agency Name			. 0	
Agency Name			*	
3. Planning/Intelligence Section				
Planning Manager				
Intelligence Unit Leader				
Fire Behaviour Specialist				
Mapping Specialist		18)	
Fire Observer/s				
Technical Advisor/s				
Plans Unit Leader				
Resource Unit Leader				
Management Support Unit Leader				
Communications Planning Leader	CX			
4. Logistics Section	Personnel	Mobile	Email Prefix	TIMEX
Logistics Manager				
Finance Unit Leader				
Comms Support Unit Leader	100			
Supply Unit Leader				
Medical Unit Leader	1			
Catering Unit Leader				
Ground Support Unit Leader				
5. Operations Section	Personnel	Mobile	Email Prefix	TIMEX
Operations Manager (Field)				
Ops Manager Planning (Deputy)				
Opermanager rightning (Debuty)				
Air Division Commander				
Air Division Commander				
Air Division Commander Air Attack Supervisor				
Air Division Commander Air Attack Supervisor Air Support Supervisor				
Air Division Commander Air Attack Supervisor Air Support Supervisor Dept Air Support Supervisor				
Air Division Commander Air Attack Supervisor Air Support Supervisor Dept Air Support Supervisor Plant / Heavy Machinery Supervisor				
Air Division Commander Air Attack Supervisor Air Support Supervisor Dept Air Support Supervisor Plant / Heavy Machinery Supervisor Forward Operating Point				
Air Division Commander Air Attack Supervisor Air Support Supervisor Dept Air Support Supervisor Plant Heavy Machinery Supervisor Forward Operating Point Division ONE Commander				
Air Division Commander Air Attack Supervisor Air Support Supervisor Dept Air Support Supervisor Plant Heavy Machinery Supervisor Forward Operating Point Division ONE Commander Sector ALPHA Supervisor				
Air Division Commander Air Attack Supervisor Air Support Supervisor Dept Air Support Supervisor Plant / Heavy Machinery Supervisor Forward Operating Point Division ONE Commander Sector ALPHA Supervisor Sector BRAVO Supervisor				
Air Division Commander Air Attack Supervisor Air Support Supervisor Dept Air Support Supervisor Plant Heavy Machinery Supervisor Forward Operating Point Division ONE Commander Sector ALPHA Supervisor Sector BRAVO Supervisor Sector YANKEE Supervisor				
Air Division Commander Air Attack Supervisor Air Support Supervisor Dept Air Support Supervisor Plant / Heavy Machinery Supervisor Forward Operating Point Division ONE Commander Sector ALPHA Supervisor Sector BRAVO Supervisor Sector YANKEE Supervisor Sector ZULU Supervisor				
Air Division Commander Air Attack Supervisor Air Support Supervisor Dept Air Support Supervisor Plant / Heavy Machinery Supervisor Forward Operating Point Division ONE Commander Sector ALPHA Supervisor Sector BRAVO Supervisor Sector YANKEE Supervisor Sector ZULU Supervisor Division NIGHT Commander				
Air Division Commander Air Attack Supervisor Air Support Supervisor Dept Air Support Supervisor Plant / Heavy Machinery Supervisor Forward Operating Point Division ONE Commander Sector ALPHA Supervisor Sector BRAVO Supervisor Sector YANKEE Supervisor Sector ZULU Supervisor Division NIGHT Commander Sector A-Z Supervisor				
Air Division Commander Air Attack Supervisor Air Support Supervisor Dept Air Support Supervisor Plant / Heavy Machinery Supervisor Forward Operating Point Division ONE Commander Sector ALPHA Supervisor Sector BRAVO Supervisor Sector YANKEE Supervisor Sector ZULU Supervisor Division NIGHT Commander Sector A-Z Supervisor 6. Public Information & Media				
Air Division Commander Air Attack Supervisor Air Support Supervisor Dept Air Support Supervisor Plant / Heavy Machinery Supervisor Forward Operating Point Division ONE Commander Sector ALPHA Supervisor Sector BRAVO Supervisor Sector YANKEE Supervisor Sector ZULU Supervisor Division NIGHT Commander Sector A-Z Supervisor 6. Public Information & Media PIM Manager				
Air Division Commander Air Attack Supervisor Air Support Supervisor Dept Air Support Supervisor Plant / Heavy Machinery Supervisor Forward Operating Point Division ONE Commander Sector ALPHA Supervisor Sector BRAVO Supervisor Sector YANKEE Supervisor Sector ZULU Supervisor Division NIGHT Commander Sector A-Z Supervisor 6. Public Information & Media				

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Media Unit				
Community Liaison Unit				
7. Relief and Recovery				
Relief Manager				
Recovery Manager				
8. Investigation				
Lead Investigator				
9. Regional Coordination Centres				
RCC				
Note: email s	suffix = @fireandemergency.nz]	FIMEX = date scheduled ex	it rostered deployment)	
FORM: RF203 Prepared by:		[[ate: 6/4/22	Time: 1235
				Q

Active Incident Management Structure Incident Controller Deputy IC **Planning** Investigation Info and Warnings Div Night FOP Staging Supply Comms Support Air Attack Media Community Liaison Comms Planning Support Management Support Structure Catering

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Incident: AWARUA BAY FIRE Sector Assignment 1-A

Operational Period: 24hrs

Date/Time from: 0800 07/04/22 Date/Time to 0800 08/04/22

Fire Day: 6				Dat	e/Time to USC	00 08/04/22
1. Sector	2. Sector Supervisor				3. Division A	ssigned
ALPHA					ONE	
4. Sector Description	North Flank of Fire					
5. Anchor Point / Refuge	ICP					
6. Resources Assigned th	is Period (including Plant / H	leavy Equipment	t)			26
Resource	Crew Leader	Mobile	Call Sign	Vehicle	#Persons	TIMEX
Hyslops					13	
Wakari (Dunedin)					8	
DOC					10	

7. Sector Assignment / Special Instructions

- Continue to black out to 50m
- 2. Monitor for dead and injured wildlife. Please report back with locations and details
- Set up sprinklers to the Western corner near the FCP

8. General Taskings

- A. Crews to travel in convoy to sector from staging area, all lights on, sirens generally not required.
- B. Allocate a crew responsibility to provide hourly kestrel fire behaviour readings to FOP.
- C. Confirm L.A.C.E.S, test and update throughout operational period.
- S.Sup validate resources, contacts are current against IAP sector assignment, report errors.
- E. Ensure that a least one person on each crew is monitoring Air to Ground Radio CH to allow for contact with air operations.
- F. Roads requiring radio callups are posted at start of the road. (ref comms plan on requirements).
- G. Crews identify & communicate needs for next operational period to s sup to review & pass resource requests & expected progress by end of shift to FOP (include additional or surplus resources, hazardous situations, significant events, progress).
- H. Crews and plant / machinery to sign out through staging area / FOP. All DTRs signed by supervisor and copy handed in to staging area (can email photo to FOP).

9. Reporting / Communication Instructions Time From / To **Details** 2hrs of Shift Start Crew.L to S.Sup Confirm L.A.C.E.S in place by each crew lead (incl plant and equipment) 2hrs of Shift Start S.Sup to FOP Confirm resources +/- compared to IAP, IAP errors, L.A.C.E.S in place 1/2 Shift - 0.5hr Crew.L to S.Sup Resources needed next ops period (Night or Day), expected to achieve this ops period At 1/2 Shift S.Sup to FOP Resources needed next ops period (Night or Day), expected to achieve this ops period Every 2hrs S.Sup to FOP C.A.N Report (important this includes detailed progress on actions) Every 1hrs Assigned Crew.L to FOP Fireline Observations (from at least one crew leader per sector) 10. Sector Communications Mobile Call Sign Vehicle Radio CH Personnel Sector Supervisor Division Commander Air Attack Supervisor Plant/Heavy Equip Supervisor Forward Operating Point Operations Manager Operations Manager - Planning Safety Officer FORM: RF204 Prepared by: Operations > Error! Reference source not found.: Date: 5/4/22 Time: 1500

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Sector Assignment 1-Z

Operational Period: 24hrs

Fire Day: 6

Date/Time from: 0800 07/04/22 Date/Time to: 0800 08/04/22

1. Sector	2. Sector Supervisor				3. Division A	ssigned
ZULU					ONE	
4. Sector Description						
5. Anchor Point / Refuge	Beach					
6. Resources Assigned th	is Period (including Plant / H	leavy Equipment)				
Resource	Crew Leader / Driver	Mobile	Call Sign	Vehicle	#Persons	TIMEX
					×	
7 Sector Assignment / Sn	ecial Instructions					

- Continue to black out to 50m
- Monitor for dead and injured wildlife. Please report back with locations and details

8. General Taskings

- Crews to travel in convoy to sector from staging area, all lights on, sirens generally not required.
- B. Allocate a crew responsibility to provide hourly kestrel fire behaviour readings to FOP.
- Confirm L.A.C.E.S, test and update throughout operational period.
- D. S.Sup validate resources, contacts are current against IAP sector assignment, report errors.
- Ensure that a least one person on each crew is monitoring Air to Ground Radio CH to allow for contact with air operations. E.
- Roads requiring radio callups are posted at start of the road. (ref comms plan on requirements).
- Crews identify & communicate needs for next operational period to supply to review & pass resource requests & expected progress by end of shift to FOP (include additional or surplus resources, hazardous situations, significant events, progress).
- Crews and plant / machinery to sign out through staging area / FOP. All DTRs signed by supervisor and copy handed in to staging area (can email photo to FOP).

9. Reporting / Communication Instructions Time From / To 2hrs of Shift Start Crew L to S.Sup Confirm L.A.C.E.S in place by each crew lead (incl plant and equipment) Confirm resources +/- compared to IAP, IAP errors, L.A.C.E.S in place 2hrs of Shift Start S.Sup to FOP 1/2 Shift - 0.5hr Crew.L to S.Sup Resources needed next ops period (Night or Day), expected to achieve this ops period At 1/2 Shift S.Sup to FOP Resources needed next ops period (Night or Day), expected to achieve this ops period C.A.N Report (important this includes detailed progress on actions) Every 2hrs S.Sup to FOP Assigned Crew.L to FOP Every 1hrs Fireline Observations (from at least one crew leader per sector) 10. Sector Communications Personnel Mobile Vehicle Radio CH Call Sign Sector Supervisor Division Commander Air Attack Supervisor Fire 4 Plant/Heavy Equip Supervisor Forward Operating Point Operations Manager Ops Operations Manager - Planning Safety Officer Fire 2 Date: 5/4/22 Time: 1500 FORM: RF204 Prepared by: Operations > Error! Reference source not found.:

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FOP / Staging Assignment

Operational Period: 24hrs

Date/Time from: 0800 07/04/22

Date/Time to: 0800 08/04/22

1. Resource / Crew	2. Forward Operating Point (FOP) Location
[Hazmat Vehicle Name and Call Sign]	

3. Assignment / Special Instructions

1

4. General Taskings

- 1. Hazmat / ICU Unit provides shelter and working space for Ops Manager /Sector Supervisors/Safety
- Operational decisions and resource ordering are to be made by members of the IMT.
 - Resource requests to go on through to IMT Resources Unit.
 - b. Operational decisions referred to Operations Manager or Operations Planning Manager (Deputy Ops).
- 3. Receive fire ground notices from Operations Manager or IMT Members and broadcast around sectors to fire ground.
- Monitor quality of radios comms, request mobile repeaters or channel changes, ensuring all crews can be contacted. Manage / monitor schedule for battery changes on any mobile repeaters stationed in field.
- Notify fire ground (Radio), Operations Manager (Radio/Phone) and Intel Unit (Phone/Email) if sudden change in observed weather.
- 6. Provide photocopy and printing capability for field staff.
- 7. Print and display key IMT information on internal and external display boards for operational staff reference.
- Get weather and fire behaviour forecast from Intel as they become available and broadcast around sectors to fire ground.
- Ensure a current fire map is displayed on external display for operations staff to reference. (Fire Mapper)
- Update T-Cards as resources move between sectors within Microsoft Planner Resource Board. (not set up yet) Query by Radio / Ph
 operations, S.Sup & Crew.L for missing T-Card / IAP contact details, names, timex dates, to ensure information is maintained and
 current
- Take photos of white boards or paper operational plan, send to Intel.
- Collect safety incident forms (Salmon Cards), scan and email to Safety Advisor, Operations, Intel.
- 13. Collect sector supervisor's reports at end of shift, scan and send to IMT.

4. Displaying Information

- A. Display T-Cards for Resources Microsoft Planner Board on large internal touch screen display.
- B. Display Latest Fire Map / Webmap on external large display, and on Internal Touch Screen as a tab in browser (with planner)
- C. Maintain printed copies of latest IAP, internal wall x2. External display x2.
- Maintain IMT structure white board with current incident control structure as per IAP.
- Display tower camera overview towards fire ground on rear internal display.
- F. Display COVID19 Incident QR Code

5. Incident CHECK-IN / CHECK-OUT

Act as fire ground CHECK-IN ensure all crews and resources sign-in and out through the FOP as per Logistics Plan > #7 and #8

		ů i ů					
6. Reporting / Co	mmunication Instruct	tions					
Time	From / To	Details					
1hr of Shift Start	FOP to Resources	Confirm T-Cards updated with RF220, DTR signed in at Staging.					
2hrs of Shift Start	FOP to Safety Advisor	Collate confirmation of L.A.C.E.S from Sector Supervisors (S.Sup). Confirm with Safety Advisor via teams fire channel chat. Prompt from S.Sup if not yet received.					
Every 2hrs	FOP to Intel	Collect CAN Reports from S.Sup, write up and send to Intel Unit via teams fire channel chat.					
Every 1hrs	FOP to Intel	Collate Fire Weather Observations from 1 crew leader per sector, collate and send viaemail to					
As required	FOP to Fire Ground	Broadcast sudden changes in observed weather or fire conditions.					
As required	FOP to Fire Ground	Broadcast weather forecast as provide by Intel Unit.					
As required	FOP to Resources	Pass on resource requests from fire ground S.Sup via teams fire channel chat.					
At ½ Shift	FOP to Resources	Collate resources (number of crews, machinery, equipment, supplies, specialists eg.tree fellers) suggested for next ops period (next Night or Day shift) from S.Sup for each sector send via teams fire channel chat.					
At 1/2 Shift	FOP to Operations / Intel	Collate from each S.Sup what is expected /forecasted to be achieved this ops period/shift. Send via teams fire channel chat.					
As required	FOP to Fire Ground	Request clarifying information not yet detailed in IAP (gap filing > correct names, call signs, contact details, TIMEX dates (end of deployment date), vehicles registrations / type) from resources across the fireground. Enter in Planner T-Cards.					
As required	FOP to Intel	Send photos of whiteboards, paper options analysis/plans as requested by email to Intel.					
As required	FOP to Safety	Collect safety incident forms (Salmon Cards), scan and email to Safety Advisor					
FORM: RF250 Prepa	red by: Operations > Error!	Reference source not found Date:6/4/22 Time:1600					

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Air Operations Plan

Operational Period: 24hrs

Date/Time from: 0800 07/04/22 Date/Time to: 0800 08/04/22

Fire Day: 6

1. Personnel and Communications							
Position	Name	Email Prefix	Mobile	Radio CH			
Air Div. Commander				Fire 4			
Air Attack Supervisor							
Air Ground Support Sup.				Fire 4			
Drone Operations				0			
Supervisor							
Lead Helicopter Pilot							
Lead Fixed-Wing Pilot							
Lead Drone Pilot							

2. Air Resource Assignments

L. 7th Hoodardo 7toolgi	IIIIOIIIO		
Pilot Name/Company	Aircraft Type	Regis. or Call Sign	Assignment Tactical On-board Freq/CH Mobile
Heli 1			Platform
Heli 2			Support ground crews
Heli 3			Support ground crews
Heli 4			Support ground crews
Heli 5			Support ground crews
Heli 6			Support ground crews

3. Location of Filling Points / Service Areas

Name	Details		Grid Reference (NZTM / Decimal LAT.LONG)
Heli base	Sea and pond with in wet lands		

4. Safety Notes / Hazards / Radio Coverage Limitations / Temporary Airspace Restrictions

- Any known hazards eg power-lines, high obstacles
- Record if any radio 'dead spots' are known or expected.
- 3. Drone operations will be operational from HHMM-HHMM in [sectors X], Drone pilots will be monitoring both air-air channels and air-ground, with temporary MBZ-10mins in place for drone operations occurring if manned aircraft are operational.

5. Air Operations Special Equipment or Service

- Air operators are to supply own fuel to meet their requirements.
- Make note of any special equipment or services required: eg High-volume pumps, or Police for crowd control, access to fuel, RPAS/Drone operations etc.

6. Special Instructions

RPAS / Drone Operations for Hot spotting

- Drone operations will be tasked in coordination with the Intelligence Unit Leader, and tasking appear within the sector assignments.
- Request a fly over, marking hots, rechecking existing Fire Mapper Hotspots from previous night, and any identified on Firemapper by ground crews using handheld TIC.
- Fly perimeter of fire and map new hotspots within +/-30m of perimeter.
- Upload to 30m perimeter hotspots to Fire Mapper in prep for map available for Ops Briefing.
- Locate existing structures with GPS and photo of condition

RF208 Prepared by: Date:6/4/22	Time: 0100	
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Incident: AWARUA BAY PLAN

Communications Plan

Operational Period: 24hrs

Fire Day: 6

Date/Time from: 0800 07/04/22 Date/Time to: 0800 08/04/22

	inicate an	y radio coverage iss	ues to Lo	jistics > Comi	munication	is Support Unit	mmediately
1. Radio Channels							
Operations	Function		Radio Cha	nnel		Frequency (TX/R)	X) UHF/VHF
	Command		OPS				UHF Simplex
	Ground Cr	ews	FIRE 1				VHF Simplex
Fire Operations							0,
	Ground to	Air	FIRE 4				VHF Simplex
							X
Air Operations							
Structure Protection							
Structure Protection							
						.0.	
Call up roads							
Plant / Equipment	Ground Cr	ews	FIRE 1				
Police				×			
Cordons							
Rescue Heli.	Ground to	Air	Interagence	y Liaison (CH10)		VHF
2. Portal Radio Repe	eaters				,		
				Batteries / C	harging	M1D	
Name	Location		2.0	Requiremen	t	Managed By	
	TBC		-8/1			Command Ur	iit
3. Document Manage	ement (dod	cument locations, online	or offline sy	/stems)			
System	Details			·	Comment	ts	
IMT Microsoft 365	R5A Office	365			FENZ Mic	rosoft SharePoint a	nd Microsoft Teams
Team	TON OHIO	, 000			> all incide	ent documents, files	, photos and chat
Incident Channel							
Name							
Situation Board URL		\(\(\) \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ 					
Planner T-Cards		<u>O</u>					
Photos and Video Upload							
4. Internet Access	. 0						
Access Point	SSID				Details		
ICP (nmand or FENZ_Case0	5 etcl			vailable at ICP for I	MT personnel onlyl
FOP / Staging		nmand or FENZ_Case0				vailable at FOP]	porconnion only]
5. Weather Stations				station URL's o			al list)
Name	Details for				Location	c.gamoadom	
	201211010						
6. Telephone / Satell	lite Phone	s or Messengers (oth	ner than liste	d in organisation	nal list)		
Name		Mobile / Channel	Tan 7 mote	Туре	Comment	ts	
				3 1			
7. Other (email, sms, s	social media	. chat groups, other tha	n listed in o	ganisational list)			
There is communication							
RF205 Prepared by: Co							
found.	aramamoudo	ir oupport offit > Life!	Reference	Journal Hot	Date:		Гime:

Safety and Wellbeing Plan

 Operational Period: 24 Hours
 Date/Time from: 0800 07/04/22

 Fire Day: 6
 Date/Time to: 0800 08/04/22

1. General Safety and Wellbeing Points

ALWAYS REMEMBER YOUR L.A.C.E.S										
L	Α	С	E	S						
Lookout(s)	Awareness or Anchor Points	Communication	Escape Routes	Safety Zones						

10 Standard Firefighting Orders

- Keep informed on fire weather conditions and forecasts.
- Know what your fire is doing always.
- Base all actions on current and expected fire behaviour of the fire.
- Identify escape routes and safety zones and make them known.
- Post lookouts when there is possible danger.
- Be alert. Keep calm. Think clearly. Act decisively.
- Maintain prompt communication with your crew/s, your supervisor and adjoining crews.
- Give clear instructions and ensure they are understood.
- 9. Maintain control of your crew/s always.
- Fight fire aggressively, having provided for safety first.

Dangerous Situations to Watch Out For

- 1. Fire size is unknown (no size up).
- Unfamiliar territory.
- Safety zones and escape routes not identified.
- Unfamiliar with weather and local factors influencing fire behaviour.
- No communications link with crew members or supervisor.
- 6. Instructions and assignments not clear.
- Weather is getting hotter, drier and relative humidity dropping.
- 8. Wind increases and/or changes direction.
- Getting frequent spot fires across the line.
- 10. Working uphill or down wind of a fire.
- 11. Working on a steep slope.
- Working in rugged terrain.
- Cannot see main fire.
- In unburnt vegetation.
- Walking through hot ashes.
- Working alone.
- 17. Getting tired.
- Working near power lines.
- 19. Working near machinery.
- 20. Working with aircraft.
- 21. Working around trees or spars.

Confirm L.A.C.E.S with crew, and supervisor within 2hrs start of shift

Everyone is to be signed in and out of the fire ground through the FOP / Staging for both safety check and payment records Maintain regular C.A.N (conditions, actions, needs) reports to line supervisors at agreed interval as per sector assignment. Single resources not assigned to a division / sector will do C.A.N reports with FOP every 2 hours while on fire ground.

Provide corrections/updates to IAP: resources, contacts, communication, update maps to include safe zones, escape routes to ensure it is maintained for safety for following operational shifts

2. Specific Safety and Wellbeing Points

- All crews to have adequate food, water, PPE to manage fatigue and hydration.
- Work rest periods enforced. 9hr rest period before returning to fire ground. Crews travelled >3hrs must have 4hr stand down.
- Seek shade during rest period, be sun smart.
- 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.
- Avoid skid sites where stability of surface cannot be assured.
 - Eliminate / minimise working in smoke and or traveling in smoke.
- Ensure safe distance from all heavy machinery

4. Management of Dangerous Trees

- Big trees with root plates compromised in Sector
- Dangerous tree assessors ensure competent and equipped for task (including PPE).

RF209 Prepared by: Safety Advisor > Error! Reference source not found. Date: Time:

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Operational Period: 24 Hrs

Fire Day: 6



Incident Specific Hazard Board

Date/Time from: 0800 07/04/22 Date/Time to: 0800 08/04/22

LIIE	Jay. 0		MEW ZEALAND					\smile	Date/11116 to. 0000 00/04/22
HAZA	RD REGISTER		RISK ASSE	SSMENT					Likelihood
Haz#	Hazard	Location	Control Measure	Likelihood	Consequence	Risk	Adequate Control	IC Aware	SCORE CHANCE OF SOMETHING HAPPENING 1 RARE Mayoccurinexceptionalcircumstances<10%
1	Working with Aircraft	A, B & Z	Air attack and air support	4	1	High	Y	Υ	2 UNLIKELY Could occur 10 to 30% chance
2	Working around aircraft	Alpha	Working safely around aircraft	4	2	High	Y	Υ	3 POSSIBLE Might occur 30 to 70% chance 4 LIKELY Will probably occur 70 to 90% chance
3	Peat and ashpits	Alpha	Crew leaders & firefighter aware	3	1	Low	Υ	Υ	5 ALMOST CERTAIN Is expected to occur >90% chance
4	Winds running fire	Fire Ground	Light winds – rain at 1500 – increasing winds 1800, 40- 50kph	3	1	Low	Υ	Υ	Consequence
5	Smoke	Fire Ground	Stay and work in clear air	1	2	Low	Y	Υ	SCORE DESCRIPTOR EXAMPLES
6	Comms Diminishing with distance	All Ground Crews	Fire 1, ground crews. Use Fire 4 via air ops as needed. VHF Repeater	3	1 60	Low- Medium	Υ	Y	INSIGNIFICANT Insignificant injury or damage/loss to equipment Minor injury; minor loss/damage to
7	Driving on sand/beach	Fire Ground	Watch depending on ops strategies	2	1	Low	Y	Υ	equipment equipment Serious injury (e.g. hospital, off work), moderate loss of equipment
8	Escape Routes Working with Heavy	Fire Ground	Plan ahead. Try and have more than one escape route	3	3		Υ	Y	4 MAJOR Multiple serious injuries (e.g. permanent disability, major loss of operational capability 5 CATASTROPHIC Fullify (one or more) to staff, catastrophic loss of operational capability Risk Matrix CONSEQUENCE 1 2 3 4 5 UNILHOOD MUSTAINCANT MAJOR MODERATE MAJOR CANATIONAC 5 AUGUST CONTAIN Medium High Very legh Very legh Very legh 1 4 LINELY Medium High Very legh Very legh Very legh 1 3 POSSBLC LOW Medium High Very legh Very legh 1 2 UNLRELY LOW LOW Medium High Very legh Very legh 1 1 MULE LOW LOW Medium High Very legh Migh Very High 1 2 UNLRELY LOW LOW Medium High Wery legh 1 4 Modium Low Modium High Migh Very legh 1 5 Mittigation Control measures are aftered to and seviles periodically Where the Risk Rating is High or VERY HIGH, the Incident Controller MIGH The Informed Immediately Where the Risk Rating is High or VERY HIGH, the Incident Controller MIGH The Informed Immediately Technical and monitored. Very High Technical Control ones were to be reassessed and personnel are to be subbilly trained and monitored. ALL HAZARDS TO BE REVIEWED PERIODICALLY (HRLY, DAILY)
9	Machinery	Zulu	Keep your distance and lookouts	2	3	Medium	Y	Y	
10	Beehives	Alpha (W Edge)	Crews notified 1230 + all confirmed	1	1	Low	Υ		
11	Covid	All	If any ground crew or air attack feel unwell, to attend Tiwai RAT testing station between 0730 and 1530. IMT temperature check on entry at Tiwai including visitors. Any	3	3	Hign	Y	Y	

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			new crew to be separated during briefing and operationally where practicable.						G	31	
12	Wind Gusts up to 90kph	All	Weather forecast 50kph sustained, gusting 90kph midday. Early decision by ops for extraction of crews by heli.	4	2	High	Y	Y			
13	Cold Windy working conditions	All	Corrent PPE and personal awareness. Crews to monitor for possible signs of hyperthermia	4	2	Hign	Υ	Y			
FES2	FES262 Prepared by: Safety Advisor > Error! Reference source not found.:- Time:0100										

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Incident: AWARUA BAY FIRE Operational Period: 24 Hrs

Medical Plan

Date/Time from: 0800 07/04/22 Date/Time to: 0800 08/04/22

	•
1 Fire	id Pasources / Stations (each crow must have available one first aid level 1 cortified)

1. 1 110t / 11d 11000 di 000 /	Ctations (caon crew mast have available one	o mot ala lover i continca)	
Name	Location	Mobile / Radio CH	Paramedics avail.
Defibrillator/s	Command Unit	Fire 2	0
Co-response First-aid Kits	Command Unit	Fire 2	0
0 T			

2. Transportation

Ambulance Service	Address	Mobile / Radio CH	Paramedics avail.
St Johns		111	
Rescue Helicopter		111 / Interagency Liaison (CH10)	

3 Hospitals

Fire Day: 6

J. Hospitals						
Hospital Name	Address	Phone	Travel Time (min)		Burn	Heli
поѕрнанчание	Address	Priorie	Road	Air	Unit	Pad
Southland Hospital		03 218 1949			N	Υ
			41			

4. Special Emergency Procedures

All injuries are to be reported to the sector supervisor (or FOP as backup) immediately. Emergency, Safety Advisor and IMT will be notified by supervisor ASAP (or FOP).

- · All crews should have first aid kits.
- Crew first aid attendant will assess injury and treat.
- Request for transport will be made through sector supervisor (or FOP as backup). In most cases requiring transport to medical
 centre, ground transport on unpaved roads is advised against and heli should be requested.
- Sector supervisor will ensure necessary incident reporting (Salmon card) completed & provided to Safety Advisor.
- Safety advisor will record all incident in Safe@Work

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RF206 Prepared by: Logistics Unit > Date: 6/4/22 Time: 0100

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Operational Period: 24hrs

Logistics Plan

Date/Time from: 0800 07/04/22

Fire Day: 6		Date/Time to: 0800 08/04/22							
1. Facilities									
Incident Control Point	Tiwai Point Smelter, Office								
Check in / Assembly Area	Command Unit								
Staging Area	Corner of Awarua Bay Rd and Buddle R	orner of Awarua Bay Rd and Buddle Rd							
Forward Operating Point									
Heli/Airbase	At Staging Area	0-1							
Toilets	At Staging Area								
2. Accommodation (email L	ogistics Unit or call Facilities Unit Leader	for any queries related to accommodation)							
Accommodation	Address	Allocated Resources							
Various	Various Invercargill Locations	Various							
	Parking, Vehicle Maintenance and	Refuelling							
Transport Flights									
Airport to Check in									
Accommodation to Staging									
Rental Vehicles	One rental vehicle (retardant crew) retu	rning home							
Maintenance of Appliances	Safety using Salmon Cards	20							
Refuelling	All appliances are to be filled using FEN								
Parking	All vehicles parked at dedicated parking	areas							
4. Catering		KO.							
Dinner	No specific arrangements have been ma								
Lunches		Team (RRT) dropped at ICU (packed lunch)							
Breakfast	No specific breakfast arrangements								
5. Supplies	•								
Pump Fuel / 2-Stroke	is keeping/providings stocks								
Drinking Water/ Hydration	Water at ICP and at staging area								
Pwdr									
Class A Foam / Soap Caps.	Additional request of 140 20L containers	s plus 2 extra pallets							
Radios									
Uniform and Laundry									
7. Instructions for Mobilis	ation of New Incoming Resources								
Check In		rt to Check in / Assembly Area for check in. Will be allocated							
Domobilization of Outar	resources, accommodation and supplies	s as needed.							
8. Demobilisation of Outgo	bing resources								
8	paperwork. This will be done at Ch	rir deployment on the fire ground must complete relevant heck in / Assembly Area by the Resources Unit.							

Check Out

- A check of your DTR's must be completed by the Finance Unit, ensuring all are complete and signed by supervisor.
- Ensure all injury or equipment claims are well documented and complete.
- At any time during the demobilisation process if there is any concern, contact the Resources Unit Leader.

RF249 Prepared by: Logistics Unit > Sue Paterson

Date:6/4/22

Time: 0100

Incident: AWARUA BAY FIRE

Public Information Plan

Date/Time from: 0800 7/4/22 Operational Period: 24 Hours Fire Day: 6 Date/Time to: 0800 8/4/22

1. Overview of PIM Response

Key messages are that Southland is very dry and a reminder not to light fires. Objective is to contain the fire. No houses or property is threatened. 1350 hectares/26km perimeter. Key stakeholders Environment Southland, Iwi, Department of Conservation, Rio Tinto, Invercargill City Council (tuatara), Southland District Council and the farming community. Updates provided the Fire and Emergency -Southland Facebook page. Taking water from tarns in the wetlands and the sea. Tarn water is being applied to the same catchment surrounding land. Important to prevent further damage to the internationally significant wetlands. Currently investigating the cause of the fire. Wildlife response, how to respond to wildlife encountered by ground crew, opportunity for DOC personnel to support via Forward Control Centre.

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2. Personnel and Communication	ations			
Position	Name	Phone	Email Prefix	Affiliation
Public Information Manager				FENZ
Deputy PIM Manager				
Information and Warnings Unit				
Media Unit				
Community Liaison Unit				
Spokesperson – [Topic]				FENZ
Spokesperson – [Topic]				
3. Public Meetings				9
Meeting Purpose	Location	Time	Contact Person	Phone
Face to Face Community Meeting	Tiwai Smelter Iwi	Ongoing Conversation		via email
Broadcast Community Meeting	Email Community Groups	Ongoing	(Environment Southland)	20
On-air Radio Meeting				
5. Public Information Source	s (details of the specific	sites or types)		
Websites				
Social Media	Fire and Emergency -	- Otago,	updates on the fir	e.
Helpline				
Information Points				
Community contacts/meetings			<u> </u>	
Other – Posters / Handouts / SMS			10,	
5. Media Message Distributio	n (specific stations or p	oublications)		
Radio		+, 9		
TV				
Newspaper				
6. Media (schedule)				
Media Briefing/Conferences				
Media Site Visits				
Interviews)		
7. Message Monitoring				
8. Personal Social Media War	rning (Treat as Public	Information and Do	Not Post)	
Anything published on social med			· · · · · · · · · · · · · · · · · · ·	eople and media. You
should assume that all information	n posted is public and tr	eat it like making a	public statement. Even if you're co	
private messaging or just to your	friends', you can't contr	ol how others may	share the information.	
RF247 Prepared by: PIM Manage		Date: 06/04/	22 Time: 0100	

Fire Behaviour and Weather

Operational Period: 24 Hours

Date/Time from: Date/Time to: 0800 07/04/22 Fire Day: 6

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1. Weather Forecas	st
Situation	Long spell of dry weather, broken by 30mm of rain on 5th and 6th. Low potential for showers over the next 2 days coupled with a very strong SW to W wind.
This Shift: Thursday.	Thursday, chance of a possible light shower, SW going W around mid-day, 15 to 20km/hr, increasing 30 to 35km/hr in the evening. Gusting 40 to 60km/hr by late afternoon. High of 13 degrees, low RH of 55%.
Looking Ahead:	Friday, Low chance of a lite shower, W to SW for the day, 35 to 45km/hr. Gusting 80 km/hr, easing in the evening to 50km/hr. High of 15 degrees, low RH of 60%. Outlook- Saturday, W 30 to 35 km/hr gusting 60km/hr. 16 degrees. Rh low of 65%

2 Fire Behaviour Forecast (1200 NZST)

Z. I lie Dellavioui i olecast (i	200 1420	'''									
STATION	TEMP	RH	WD	WS	PRECIP	FFMC	DMC	DC	ISI	BUI	FWI
Tisbury											ZO
6/04/22 Actual 1200hrs	13	65	270	35	28.6	52	10	349	1	19	1
7/04/22 Forecast	13	55	250	20	0	74	11	352	2	21	3
8/04/22 Forecast	15	60	250	40	0	82	12	356	11	23	16
Other RAWS											
6/04/22 Actual 1200hrs Southland portable)	13	63	WSW	40	0						
								A			

3. General Fire Behaviour

Fire behaviour today should be reasonably benign until after lunch. In the afternoon the fire behaviour has the potential for sustained crown runs within scrub fuels with a scrub danger level of Very High. (In the absence of more rain)

Fire behaviour in the morning is likely to be restricted to a low level of surface burning only and limited candling. No fire perimeter growth is expected but is possible.

The wind direction is pushing the fire out towards the Bravo edge and the water.

The big concern would be any runs from the SE which could jump the Alpha break and move north. This is possible if a patch of unburnt fuel within the perimeter ignites, and spot fires jump the Alpha edge. If a run occurs, the fire behaviour will be Moderate with a FROS around 400m/hr and HFI around 5,000 Kw. This is likely to be within control parameters by aircraft.

Given the DMC and DC this fire is likely to be deep seated and mop could be extensive. It appears that the fire is burning in peat layers in some limited locations on high spots.

4. Specific Fire Behaviour (assumed no suppression)

FUEL TYPE	ROS / HEAD FIRE INT. / FLAME LTH	PEAK ROS / HEAD FIRE INT. / FLAME LTH
Manuka/Kanuka	400m/hr. 5,000Kw/m, 3.8m flame length.	

5. Specific Activities

Beware of ash pits.

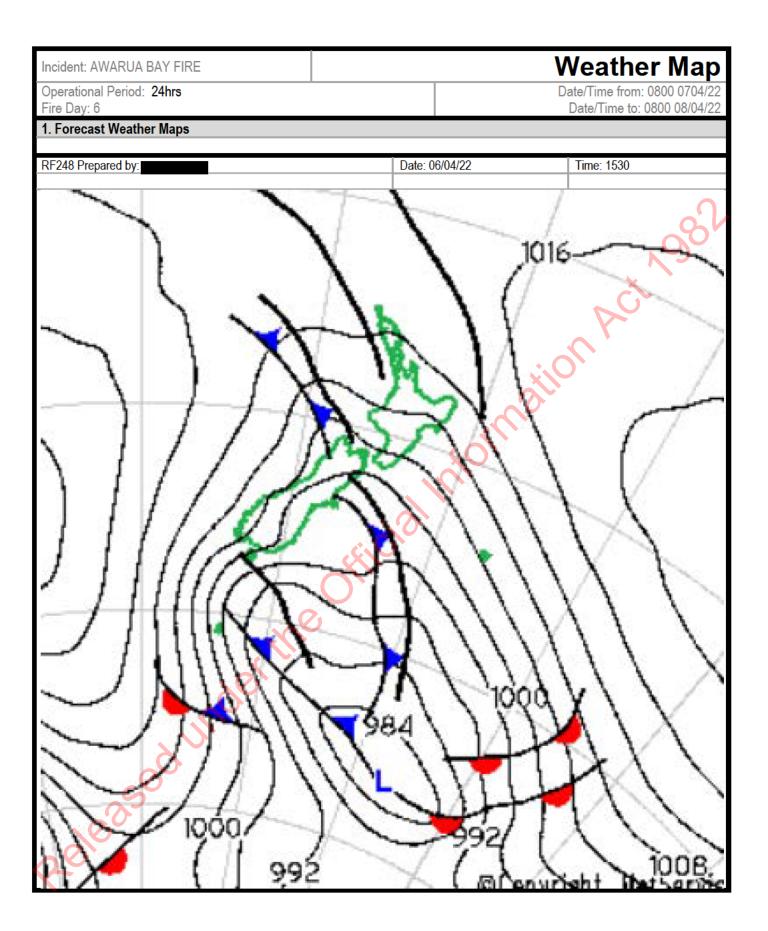
6. FIRE BEHAVIOUR SAFETY ADVISORY

NO safety advisory for fire behaviour.

RF248 Prepared by: Jamie Cowan Date: 6/04/22 Time:15:30

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

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Fire Maps and QR Codes Incident: AWARUA BAY FIRE Date/Time from: 0800 07/04/22 Operational Period: 24hrs Fire Day: 6 Date/Time to: 0800 08/04/22 1. Using QR Codes for FireMapper (Live / Offline Map) Download FireMapper for Enterprise app on iOS and Android. If you do not have a license Scan the Temporary License Code or Enter Code directly into FireMapper User Profile (and update your details). Shared Maps should be available for the incident. Adroid FireMapper Cannot Scan the QR Code below, please enter the code manually or Scan the QRCODE using your Google Chrome Search function TEMPORARY FIREMAPPER LICENSE CODE: NZNVLCQXM7RXDYJVQTL24I3QIIHAYS2Z **QRCODE** 3. Fire Maps (overview and QR codes) 4. Evacuations Maps (overview) 4. QR Codes for Other Information (weather stations) 5. QR Codes for COVID19

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Incident: AW/	ncident: AWARUA BAY FIRE						ook /	Fire	eline (Obs	ervations		
Operational F Fire Day: 6	Period:	24hrs									e from: 0800 07/04/22 ime to: 0800 08/04/22		
Do not leave b	lank line	s betwee	en entries.	Provide	to your	supervi		each da	ay. Include any		instructions, & actions. requests submitted and		
1. IMT Unit / Div / Sector 2. Name						(1			le / Crew / Res	esource			
4. Time	5. T/R/	V 6. N	lotes				7. Actions				0		
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Location	Time	TEMP	RH	WD	ws	Fire F	ront Location	Fu	uel Type	F.LTH	Comment		
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Sector Supervisors Report
Date/Time from: 0800 07/04/22 Operational Period: 24hrs Date/Time to: 0800 08/04/22 Fire Day: 6

Tile Day. 0							Dat	ci fillic to. 000	0 00/07/22
				ivision command or completed in F					
				. Tick that DTRs					J.100,
1. Division	2. Sector		ector Superv		D 1110 Have 2	4. Map Attached / Updated	s 6.Incid	6.Incident Reports	
						Y / N	Y / N		0
7. Crews on S	Bector (includin	g resoul	rces (tree felle	ers etc), attach pa	aper map or e	mail map to Ma	apping Specialis	st with action pro	ogress)
Call Sign	Crew Lea	der	#Persons	Comments on	Actions Co	mpleted	Needs		DTRs
								×	Y/N
									Y/N
									Y/N
									Y/N
0 A	///	0	4						Y/N
8. Appliances Registration	/ Vehicles Use Type	_	ector er Name	Crew	Comp	nents / Mainte	nanady	•	DVRs
Registration	Туре	DIIV	er warne	Ciew	Conin	ients / mainte	nance		Y/N
		+					~~		Y/N
									Y/N
									Y/N
						80			Y/N
9. Plant / Hea	vy Machinery l	Used or	n Site (attach	paper map or em	nail map to M	apping Special	ist with action p	rogress)	
Registration	Type	Dr	rivers Name	Hours Comment on Work Completed / Any Needs					
									Y/N
		_			10.				Y/N
40.5		, ,				(1:0			Y/N
10. Progress	Against Taskir	ng (refe	rence task #'s	in IAP, raise any	concerns to	r next shift, was	s tasking realisti	c / achievable)	
				(),					
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				map errors, conta source needs not					
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							Soap Cap		
							Wajax		
							Med Pump		
							Tanker		

RF249 Checked by: Check Date/Time: Actioned by:

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