

Property Details

Date(s) fire to be lit May 5 or TBC (not before)

Property Manager

Purpose and Objective(s)

Clearing the heaped material to provide training for the Rural Fire Crews in fire control techniques, mop-up, and to efficiently dispose of heaped vegetation matter.

Based on the following expected fire indices, weather, topography, fuel and 48 hour forecast.

Wind Speed	25kmh or below
Wind direction	Southerly preferred (SW ok)
Fine Fuel Moisture Code	88 or below
Initial Spread Index	11.3 or below
Build Up Index	45 or below
Slope Correction Factor	25 degrees max
Fuel	4 x piles of Logging Slash (mixed broom and pine)
Firebreak distance	12.8m max (Pile 1)

The maximum expected flame height is 8.5 metres

The maximum expected fire intensity is 27 000 kW/m

Equipment and Personnel

Equipment required onsite and on standby.

1 digger & driver (B&A Digging, Brandon O'Callaghan)

1 full water tanker with pump (Downer Works EDI)

1 fire trailers with Wajax Pump, Scotty Packs, and hand tools

4 handheld radios and spare batteries

1 helicopter with foam and bucket (on standby, Wanaka Helicopters)

Personnel required

XXXX – IC

4 Man fire crews – Dampening down hot spots and ember transfer and mop-up

All staff onsite to be briefed on safety and hazards before burn

Fire Prescription

Due to the expected intensity of the fire it will be lit when there is high RH and low temp, most probably mid morning. This information will be gathered from the nearest RAWs (Wanaka Aero) site and will be checked prior to ignition.

Smoke Management

Wind direction will be assessed prior to burning. Southerly is preferred. The neighbours will be informed of the intention to burn and informed if the nature of the fire changes during the burn.

Time of Day

The fire will be ignited before 8.00 am, before the sunshine has evaporated any early morning dew. If an inversion occurred the previous night, we will wait until daytime heating eliminates it before igniting the fire. If the forecast is for poor night-time dispersion, halt ground ignition before 3 p.m.

Safe Firing Plan

At the beginning of the prescribed burn, record wind speed and direction, fuel moisture, humidity, burning index, temperature, days since and amount of last rain, and dampness of soil and lower litter. Also record fire behaviour data such as type of fire used, length of flames, and forward rate of spread. Record applicable weather and fire-behaviour parameters at 2- to 3-hour intervals throughout the burn. Ensure suitable firebreaks are in place.

- Firing technique – diesel soaked rag and lighter.
- Fire Breaks – to be cut by digger prior to each pile being ignited. Minimum fire break distance to be 10metres. (scrapped to mineral earth)
- Ignition pattern – pushed into centre of heap to be burnt. Piles to be burnt in numerical order as shown on plan. Each pile to be under control before next pile is ignited. This plan has been chosen as it reduces the risk of ember transfer igniting a down-wind fire before the planned time.
- Planned ignition time – before 8.00am, then as above.
- Planned distribution for preparing for fire – All crews to be involved in cutting fire break out to 13 metres from heap, and applying water to grass areas from 13m to 20m.
- Planned distribution for setting fire – All crews to be upwind for ignition
- Planned distribution for holding fire – tanker with Wajax assembled, tested and on standby be available to control fire intensity. Fire to be held to area described in map.
- Planned distribution for patrolling fire – One crew patrolling downwind of fire, while under control, in communications with IC at all times.
- Planned distribution for mopping up the fire and managing the smoke – QLDC fire crew to work with digger operator to turn over logs and beat out flames and/or bury the fire residue in a pre dug holes.

Preparation Work and Protection of Sensitive Features

Fire breaks to be made 10m in all directions from heap and considered at natural break points down wind.

Special features to be protected – Nearby historic buildings and pine tree.

Installation of any monitoring equipment – Nil.

Notification of Intent to Burn

Homes and businesses in the area likely to be impacted by the burn.

Contact neighbouring Rural Fire Authorities – DOC Wanaka - 027 629 1012 and NZFS Urban Brigade – Wanaka

Consider a press release.
Contact local Community Association.
Neighbours –

Impact of Smoke

Any sensitive areas near to, downwind, or down drainage of the burn - Nil

Legal Requirements

Permit issued by PRFO.

Escaped-Fire Plan

XXXX to take charge of suppression action. Personnel and equipment required as above. Wajax pumps to be set up and hoses laid to either side of the heaps. Consider calling in standby helicopter to attack with bucket and foam depending on area that escapes.

Control and Mop-up

Mop-up to be conducted safely, promptly and completely. Adjacent land to be protected. Fire to be confirmed as fully extinguished before leaving the site.

After the burn

Record amount of crown scorch, consumption of brush, litter; and duff, and any other evidence of fire intensity such as unburned areas, exposed mineral soil. Also include a short narrative on success of the burn.

Evaluation

Post fire record of actual weather conditions, behaviour of the fire, and total environmental effects of the burn is essential.

This information is used to determine the effectiveness of the prescribed burn and in setting criteria for future burns.

Plan prepared by
XXXXXXXX

Key Contacts

Name	Number
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Pile 1



Pile 2



Pile 3



Pile 4



north ←

