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Open Burning Overview Environmental Management Act (formerly) Waste Management Act) **OBSCR** Does it apply Code of Practice Authority of a director Air curtain burners



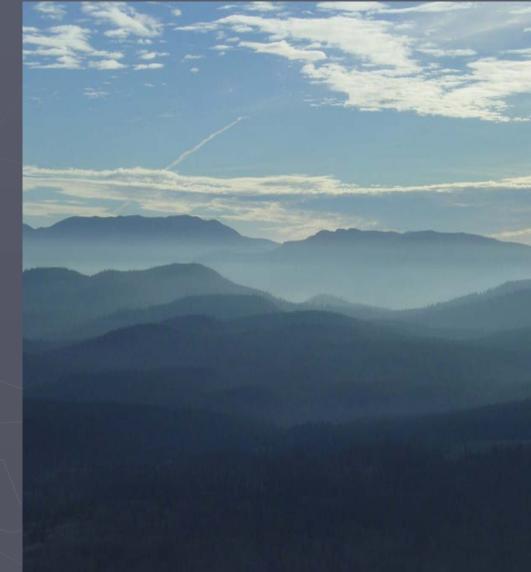
Overview

The issue: Open burning is used as a tool in land clearing for urban and rural development & to dispose of waste



Overview

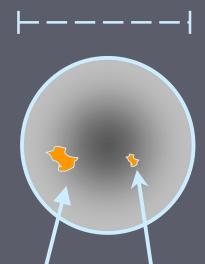
The problem: Open burning emits many pollutants, one of which is particulate matter (PM). The accumulation of PM before and during poor venting conditions creates air quality and health problems. Scientists have yet to determine a PM threshold level.



Smoke & Particles: What Are They?

Airborne particles, PM are a complex mixture of extremely small solids and liquid droplets Hair cross section (70 μm)





Human Hair (70 µm diameter)





M. Lipsett, California Office of Environmental Health Hazard Assessment

Environmental Management Act

Waste Disposal, Section 6

6 (5) Nothing in this section...prohibits any of the following:

(a) ...the disposition of waste in compliance with this Act and with...

(i) a permit

(ii) an approval

(iii) an order

(iv) a regulation

(v) a waste management plan



Open Burning

The Ministry has the mandate to manage smoke and emissions from open burning of land clearing debris The Open Burning Smoke Control Reg (OBSCR) attempts to address this Deposited in 1993 Currently under review (my next year presentation will be different)



OBSCR

- The Open Burning Smoke Control Reg When burning in compliance with OBSCR, exempt from needing a permit Is considered the minimum standard Those who cannot comply must apply for a permit or approval from the Ministry Usually MoE permits set more stringent standards than the OBSCR



OBSCR

Does it apply?

- The debris is burned on the parcel of land from which it originated
- Substances which normally emit dense smoke, noxious odours + prohibited material are not included in the burn
- Reasonable alternatives for reducing, reusing, recycling have been pursued
- No fire protection burn ban in place
- Complies with municipal bylaws



OBSCR

Does it apply...cont'd

- Set back distances obeyed
 - ▶100m from neighbour
 - 500m from schools, hospitals, continuing care facilities
- Smoke must not pose a hazard at airports or on highways by reducing visibility

If <u>any</u> of these are not met then a permit is needed from MoE to burn the debris (in some cases burning may not be the best option)



Prohibited Materials

The OBSCR has a list of materials which are prohibited to be burned treated lumber tires plastics drywall railway ties manure rubber asphalt paint demolition waste asphalt products biomedical waste hazardous waste fuel containers tar paper Contravention is an automatic appearance notice.

OBSC CoP

Other factor: the Open Burning Smoke Control Code of Practice is followed

- Category B area: smoke release period not greater than 96 hours
- Favourable weather for ignition:
 - Follow venting requirements
 - Good on ignition
 - Good / Fair on day following
 - Local air flow will not cause smoke to negatively impact a nearby population
- Must stop adding debris if:
 - Venting becomes poor
 - Winds do not disperse smoke



OBSC CoP

It is the responsibility of the person conducting the burn to ensure that the burn complies with the parameters of the OBSCR and the Code of Practice (including proper venting conditions)



Authority of the Director

- If, in the opinion of the director (represented by the Regional Manager) pollution is or may occur from open burning of land clearing debris:
 - Suspend the exemption for not needing a permit to open burn (valid for 1 month or 7 days)
 - Require that fire be extinguished
 - Require that no additional material be added to the pile





Air Curtain Burners

► Is a permit required?



Air Curtain Burners Con'd

"open burning" means the combustion of material with or without control of the combustion air and without a stack or chimney to vent the emitted products of combustion to the atomspehere No permit is required so long as the burn follows all the requirements and CoP of the DBSCR. (set back distances, good venting, etc...

Conclusion

- Open burning is a tool used to dispose of land clearing debris & other waste
- It creates smoke which is an environmental and health concern (scientists have not determined safe threshold)
- Ministry uses regulations and permits to manage emissions from open burning
 Complying with the OBSCR (minimum standard) is the least complicated.

