

Reading

7.2

Street, M. (1992). Extract from Hazard analysis of McRobbies Gully waste disposal site (pp. 17-21). Hobart.

Commonwealth of Australia

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6. INTERACTION CONSEQUENCES

6.1 HAZARDOUS WASTE DISPOSAL

6.1.1 Background

While the hazard of hazardous waste disposal can pose several threats, for the purposes of this paper the contamination of the leachate by an authorised hazardous waste burial will be considered.

The leachate from the site is collected in a pond and discharges in a controlled manner to the sewerage system.

The leachate pond is located at the downstream end of the site adjacent to the site entry gates.

The vehicle washdown area is adjacent to the leachate pond.

6.1.2 Areas Affected

- * The source of the contamination wherever located in the disposal site which could be a number of cells (250m²) at various depths.
- * The leachate collection facility and adjacent vehicle washdown area.
- * Residential land in the immediate vicinity of the leachate pond.

6.1.3 People Affected

- * Council employees directly involved in disposal site operations.
- * Users of the vehicle washdown area including Council employees.
- * Local residents in the immediate vicinity.
- * Unauthorised entrants onto disposal site property.
- * Council's middle and senior management with responsibility for disposal site operation.

- * Council's Health Department and possibly State Health Department officers.
- * Department of the Environment and Planning officers.

6.1.4 Property Affected

- * Council property being the disposal site and the leachate pond.
- * Private residential proper in the immediate vicinity of the leachate pond.

6.1.5 Services and Facilities Affected

- * Council's sewerage system (part thereof).
- * Council's vehicle washdown facility adjacent to leachate pond.
- * Restricted use of disposal site.

6.1.6 Potential Problems

- * Having to remove the source of the contamination.
- * Contaminants may upset the sewage treatment process at the plant receiving the disposal site discharge.
- * Having part of the disposal site restricted in its use or operation.

6.2 MOTOR VEHICLE ACCIDENT

6.2.1 Background

With respect to motor vehicle accidents, it is not necessary to nominate a particular site as the interaction components are generally similar although certain locations may have a wider impact on the community if the road involved is a critical route.

The following is generalised for any accident in the Cascade Road - McRobies Road - Degraeves Street - Apsley Street - Cascade Road link.

6.2.2 Areas Affected

- * Roadway in the immediate vicinity (say 100m) of the accident, although this could be much greater depending on actual location.

6.2.3 People Affected

- * Occupants of vehicle(s) involved in the accident.
- * Local residents in the immediate vicinity of accident site.
- * Emergency Services personnel, that is Police, Ambulance and Fire officers.
- * Council personnel for clean up or barricading if required.
- * Hospital personnel.
- * Relatives of victims.
- * Local commerce if traffic interruptions are critical.

6.2.4 Property Affected

- * Private motor vehicle(s) involved in the accident.
- * Private residential property such as fences or walls of houses.
- * Council property such as roadway, signs and the like.

6.2.5 Services and Facilities Affected

- * Public transport and general traffic related services.
- * Waste disposal facility if access to disposal site is denied by the accident.

6.2.6 Potential Problems

- * If access to the disposal site is denied, normal Council services would be affected with the need to find alternative sources for disposal.
- * Redirection of traffic through local suburban streets.
- * Stress on local residents if the accident is a serious one.
- * Spills onto roadway and into the stormwater system from the vehicle(s).

6.3 TIP FIRE

6.3.1 Background

It is assumed that the fire is contained within the landfill area and does not extend to adjacent vegetation.

The site is built in cells which are separated by fire walls on all sides

6.3.2 Area Affected

- * Up to 250m² initially around the fire location, however this area could expand significantly due to heat or more likely toxic smoke generation.
- * Possibly residential land in the immediate vicinity depending on prevailing winds.

6.3.3 People Affected

- * Council employees involved in disposal site operation
- * Disposal site users at the time of fire outbreak.
- * Fire, Ambulance officers.
- * Hospital personnel.
- * Local residents in the immediate vicinity.

6.3.4 Property Affected

- * Council equipment and disposal site property.
- * Disposal site users' private vehicles.
- * Residential property in the immediate vicinity.
- * Commercial property in the immediate vicinity.

6.3.5 Services and Facilities Affected

- * The waste disposal facility.
- * Local commerce and industry in the immediate area.

6.3.6 Potential Problems

- * Should the waste disposal facility be affected or restricted significantly, locating alternative sites.
- * Extension of the fire to adjacent disposal cells.
- * Widespread dispersion of potentially toxic smoke with the possibility of the need for evaluation.