

Waste Management Plan

INTRODUCTION

Waste management at Cooljarloo is a priority for the following reasons. Firstly, we have an obligation to manage our wastes by the conditions set out in our Environmental Licence. Secondly, poor management of wastes can impact on the environment and leave a lasting legacy with the community.

STATUTORY AND OTHER OBLIGATIONS

Compliance with the site Environmental Licence is mandatory. Obligations for waste management include prevention and/or management of:

- burning of waste tyres
- burial of waste tyres
- dust from waste pits
- impacts to groundwater from waste pits
- impacts to surface water from waste pits
- stormwater runoff from waste pits
- storage of waste hydrocarbons

OVERALL OBJECTIVES

- fulfil, as a minimum, statutory environmental requirements
- reduce waste and set targets for waste minimisation
- promote recycling
- ensure process wastes do not cause adverse impacts to groundwater
- ensure process wastes do not generate dust
- track waste streams to ensure they are disposed of appropriately off site
- provide education to the workforce on the benefits of recycling
- ensure Waste Info intranet site is up-to-date and that personnel know how to use it
- provide education and assistance to the community to manage their wastes through supporting community programs

OPERATIONAL OBJECTIVES

Waste Pit (Class III Landfill)

- a. Not more than 500,000 tonnes of waste deposited in the Waste Pit per annum
- b. Approval to dispose of any non-process waste obtained from DEC prior to dumping in the Waste Pit
- c. Non-process waste deposition volumes and locations in the Waste Pit tracked
- d. Process waste composition meets requirements of Class III landfill.
- e. Class III landfill liner free of leaks and effective in stopping leachate reaching the groundwater table
- f. No dust from Waste Pit to be visible at 1km from the Waste Pit
- g. Diverter embankments in place to prevent runoff from Waste Pit to Mullering Brook

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Inert Waste

- a. Approval to dispose of any inert, non-process waste obtained from Environment Department (or DEC) prior to dumping in the mine pit
- b. Non-process waste volumes and location of burial in mine pit tracked

Salvage

- a. Upgrade scrap handling area to include bins, bunds
- b. Correct storage of scrap awaiting removal from site
- c. Non-salvageable scrap parts or metal promptly removed from site
- d. Scrap inventory recorded and payment received
- e. Develop system for smooth operation of salvage yard
- f. Develop "area inspection checklist" for SEIMS inspections

Recycling

- a. Continue recycling batteries, oil, cartridges, polypipe, metal, filters, paper, phones, glass, aluminium, halogen lights
- b. Implement recycling PET plastic on site and at SPQ
- c. Promote recycling across site and at SPQ
- d. Develop cardboard recycling program
- e. Install and maintain Recycling Station for handling recyclables
- f. Increase volume of recycled paper ordered against non-recycled

Tracking

- a. Maintain disposal certificates for waste oil
- b. Maintain records of all disposal on site and off site
- c. Maintain records of scrap sale
- d. Maintain records of soil deposited for bioremediation
- e. Maintain records of bioremediation area maintenance

Reduction

- a. Reduce paper consumption
- b. Investigate use of extended life coolant
- c. Investigate waste grease incineration in kiln

Correct disposal

- a. Bioremediation area maintained according to procedures
- b. Bioremediation area working effectively (sample results within guidelines)
- c. Maintain the waste info database
- d. Complete map of recycling and waste bins across site
- e. Complete map of areas for recycling and waste disposal

Community

- a. Waste management does not create community angst

PERFORMANCE MEASURES

Waste Pit (Class III Landfill)

- a.
 - i) Monthly waste volumes tracked
 - ii) No more than 500,000 tonnes of process waste deposited in the Waste Pit
- b. Documented approval obtained from DEC prior to dumping any non-process wastes in the Waste Pit

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- c. Records kept of non-process waste deposition volumes and locations in the Waste Pit
- d.
 - i) Appropriate number of waste samples taken
 - ii) No waste components exceeding requirements for Class III disposal
- e.
 - i) Groundwater quality around Waste Pit monitored
 - ii) No reduction in groundwater quality observed
- f.
 - i) Periodic capping of Waste Pits
 - ii) Water carts available and mobilised prior to strong winds and likely dust events
- g. No incidences of process waste-contaminated stormwater runoff reaching Mullering Brook

Inert Waste

- a. Documented approval obtained from Environment Department (or DEC) prior to disposal in mine pit
- b. Records of disposed non-process waste volumes and location of burial kept up to date

Salvage

- a.
 - i) Salvage area has adequate bins, clean and free of rubbish
- b.
 - i) Scrap metal placed into appropriate bins for removal off site
 - ii) Drums and batteries stored within bunds
 - iii) All drums completely empty prior to placing in salvage area
 - iv) Tyres arranged in piles with appropriate spacing
- c. No build up of non-salvageable scrap parts or metal on site
- d.
 - i) Records of disposal/salvage kept
 - ii) Correct payment for scrap received in good time
- e.
 - i) Adequate collection schedule in place
 - ii) Area not being used for dumping
- f.
 - i) Inspection form developed
 - ii) Work groups participate in Salvage Area inspections

Recycling

- a. Recycling system working well (low contamination of domestic recycling)
- b. Coloured and labelled bins for cans and glass located in key areas of mine and SPQ and being used
- c.
 - i) Bi-monthly newsletter update on recycling program, and similar poster in SPQ Mess
 - ii) Annual article in "Sandpaper" on recycling program
- d. Cardboard receptacles investigated and trialled
- e.
 - i) Submit proposal to use Light Vehicle Workshop as Recycling Station
 - ii) Develop a Recycling Station for handling recyclables
 - iii) Install and maintain Recycling Station
- f.
 - i) Monthly paper-usage newsletter articles submitted
 - ii) Costs of increasing the proportion of recycled paper used on site investigated

Tracking

- a. Disposal certificates obtained for oil sent off site
- b. Disposal records kept and reported in Annual Environmental Report
- c. Records of scrap sale kept and payments received
- d. Records of soil deposited for bioremediation kept

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- e. Records of bioremediation area maintenance kept

Reduction

- a. Paper consumption reduced to 60 reams average per month for the year
- b. Extended life coolant trialled and implemented
- c. Waste grease collected and removed off site for burning in kiln

Correct disposal

- a.
 - i) Bioremediation area maintenance procedure reviewed
 - ii) Sprinkler frequency and duration at bioremediation area is adequate and adjusted seasonally (visual inspection)
 - iii) Periodic maintenance of bioremediation area included in Operating Strategy
 - iv) Periodic maintenance of bioremediation area carried out and records kept
- b.
 - i) Bioremediation area sampled and monitored as required
 - ii) Bioremediation results analysed and levels within recommended guidelines
- c. Waste Info database updated monthly
- d. Maps of recycling and waste bins across site developed
- e. Maps of areas for recycling and waste disposal developed

Community

- a. No community complaints received about waste management issues

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