

WASTE MANAGEMENT PLAN

JALCO AUSTRALIA PTY LTD

JHP-WMP-002-00

August 2022

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This document details Waste Management Plan for Jalco Australia Pty Ltd, located Unit 1/8 Johnston Crescent, Horsley Park, NSW,2175. It contains information of various waste streams implemented at the site.

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1. Introduction

Jalco Australia Pty Ltd Horsley Park is a contracting manufacturing business that produces a range of commercial and homecare cleaning products; laundry liquids, bleach, bathroom, dishwash, multipurpose, cream cleansers, fabric softeners, floor and window cleaners. To demonstrate environmental due diligence, Jalco Australia Pty Ltd has decided to prepare and document a waste management plan.

The purpose of the plan is to minimise the production of waste from these Premises (as well as to meet the licence requirements from the Environmental Protection Authority). The relevant New South Wales legislation is:

- Protection of the Environment Operations Act 1997
- Waste Minimisation and Management Act 1995

The plan is to be used and followed in conjunction with PACT Group Solid and Liquid Waste Management Procedure PACT WHSE PRO 027.01.

1.1 Objectives of Waste Management Plan

Jalco Australia Pty Ltd Horsley Park aims to provide a system that identifies, eliminates or minimises the generation of wastes at its source. To determine most suitable waste management techniques or strategies which will best reduce waste generation and what further investigations are required into the management techniques suggested. In addition, site will recycle in an environmentally safe manner whenever feasible. Document and make available waste minimisation and generation information as required by administering authority.

1.2 Environmental Goals for Jalco Australia Pty Ltd Horsley Park

Protection of the environment is considered a vital part of the Jalco Australia Pty Ltd approach to carrying out its business, that is, the receipt of raw materials, the manufacturing of the product and inspection, packaging and delivery of finished product. Jalco Australia Pty Ltd encompasses PACT Group Environmental Policy and will diligently comply with all governmental agency regulations or their corporate standards whichever is higher.

Jalco Australia Pty Ltd Horsley Park waste management plan will be maintained and provided to the authority upon request and available for public review to interested parties.

1.3 Waste Reduction Team

To ensure that the waste minimisation program is properly administered, a waste reduction team has been formed and composed of the following site personnel at Jalco Australia Pty Ltd Horsley Park.

Name	Position
Paul Holland	Site Operations Manager
Christine Kazzi	Senior HSES Advisor
Gopi Dhanekula	Engineering Manager
Joytika Devi	Production Supervisor
Shak Hossain	Procurement & Planning Manager

The site waste reduction team will meet annually to discuss waste minimisation issues, review plant waste management practices, compare the quantities of waste generated from year to year as reported, and measure the progress toward the waste reduction goals outlined herein.

The ongoing management, recording and monitoring of the waste generation and movement will be coordinated by the nominated Chairperson of the waste reduction team. Resources will be allocated to assist in this task by the site operations manager.

2. Background on Waste Management Plan

In order to determine ways of reducing or eliminating waste streams from the site, it was necessary to determine and quantify all the potential sources of waste materials. The following waste streams will be generated at Jalco Australia Pty Ltd site and detailed in section 3:

- Solid Waste
- Liquid Waste
- Disposal to sewer

2.1 Solid Waste

It is envisaged that solid waste produced as a result of operations include dust, reject goods, sweepings from hard stand surfaces, paper, cardboard, metal scrap, timber pallets, rags used for cleaning surfaces, scrap plastic, empty drums, IBCs, packaging and general rubbish from site.

2.2 Liquid Waste

The potential liquid waste will consist of detergent waste, spent solvents or cleaning agents, and other waste liquids.

2.3 Disposal to Trade Waste

An authority to discharge to trade waste has been obtained from Sydney Water. Aqueous liquid waste will be sent to trade waste which consists of liquid waste from the manufacturing operation, domestic sewerage and waste from lunchroom. The conditions of discharge to trade waste are set out in the licence.

3. Sources of Waste

3.1 Potential waste types, classifications and management methods for operational waste

General Operations		
Waste Type	NSW EPA Classification	Management Method
Clean office paper	General solid (non-putrescible) waste	Paper recycling at off-site licensed facility
Cardboard including bulky cardboard boxes	General solid (non-putrescible) waste	Cardboard recycling at off-site licensed facility
Recyclable beverage containers, glass and plastic bottles, aluminium cans, steel cans	General solid (non-putrescible) waste	NSW container deposit scheme 'Return and Earn', container recycling at off-site licensed facility
Food Waste	General solid (putrescible) waste	Compost on or off-site or dispose to landfill with general garbage
Batteries	Hazardous waste	Off-site recycling, alternatively contact the Australian Battery Recycling Initiative for more information
Mobile Phones	Hazardous waste	Off-site recycling; can be taken to the Mobile Muster program. Contact Mobile Muster for more information
Bulky polystyrene	General solid (non-putrescible) waste	Off-site recycling or disposal at landfill
Furniture	General solid (non-putrescible) waste	Off-site reuse or disposal to landfill
E-waste	Hazardous waste	Off-site recycling
Printer toners and ink cartridges	Hazardous waste	Off-site recycling, free disposal box or bags and pickup service exists for printer toners and ink cartridges
General garbage, including non-recyclable plastics	General solid (putrescible and non-putrescible) waste	Disposal at landfill

Maintenance		
Waste Type	NSW EPA Classification	Management Method
Spent smoke detectors	General solid (non-putrescible) waste, or Hazardous waste (some commercial varieties)	Disposal to landfill, or off-site disposal at licensed facility
Glass, other than containers	General solid (non-putrescible) waste	Off-site recycling
Light bulbs and fluorescent tubes	Hazardous waste	Off-site recycling or disposal, contact FluoroCycle or Lamp Recyclers6 for more information
Cleaning chemicals, solvents, area wash downs, empty oil or paint drums, chemical containers	Hazardous waste if containers used to store Dangerous Goods (Class 1, 3, 4, 5 or 8) and residues have not been removed by washing or vacuuming. General solid (non-putrescible) waste if containers cleaned by washing or vacuuming	Transport to comply with the transport of Dangerous Goods Code applies in preparation for off-site recycling or disposal at licensed facility.
Garden organics - lawn mowing, tree branches, hedge cuttings, leaves	General solid (non-putrescible) waste	Reuse on-site or contractor removal for recycling at licenced facility

3.2 Estimated total volume of waste streams generated and storage requirements for ongoing operation

Estimated Quantities	Recyclables						General Waste (L/day)		Other (L/day)	
	Cardboard	Plastics	Bulker Bag	Empty Containers	Other Recyclables	Metal	Wooden Pallet	Other General Waste	Liquid	DAF plant solid waste
Uncompacted	8,877	14,000	32,800	8,088	200	110	13,636	18,004	27	219
Compacted	2,219	3,500	8,200	-	-	-	-	-	-	-

To minimise packaging waste generated in the recyclables stream, packaging waste is returned to the suppliers where possible. Standard pallets are returned to their owners and non-standard and broken pallets are to be stockpiled and collected as required by a private waste contractor.

If additional collection services are required, such as secured document destruction, these can be organised with a private waste contractor who can provide additional bins and take collected waste to an off-site licenced facility.

The site is anticipated to produce minimal quantities of garden organics, less than 100 L per week. This waste will be taken by a landscaping contractor who will dispose of it at an off-site licenced facility.

3.3 Waste storage and collection of waste and recycling generated

Waste Stream		Collection per week	Storage system
Recyclables	Cardboard	2	Compactor 9 x 1 m ³ bins
	Plastics	5	4 Bailers
	Bulker Bag	2	1 Screw Compactor
	Empty Containers	2	IBC and drums stored in designated racking Staging area only
	Other recyclables	1	1 x 1 m ³ bin
	Metal	As needed	1 x 10 m ³ bin
General Waste	Wooden Pallets	2	Staging Area
	Other generated waste	5	11 x 1.5 m ³ bin
Other	Liquid	As needed	1000 L tank
	DAF plant solid waste	As needed	40,000 L tank

4. Waste Management Stream

Waste stream management and removal will include:

- Waste streams shall be segregated at source as practicable
- Compaction technology will be used to reduce the footprint of waste storage footprint as practicable.
- All waste contractors (transport and treatment facility) must have a current EPA licence as required.
- Materials which are classified as hazardous / restricted must be disposed of according to regulatory requirement.

4.1 Waste Stream 1: Recyclables

4.1.1 Cardboard

- Point of collection of cardboard.
 - o Product filling
- Intermediate processing and transfer
 - o Transfer from source to cardboard compactor
 - o The compactor shall discharge the material into an adjacent storage bin which will be collected weekly on a weekday between 7am to 10 pm.
- Removal
 - o Removal of bin onto dedicated collection vehicle for transport to offsite recycling facility
 - o Reusable cardboard returned to supplier for repack.

4.1.2 Plastics

- Point of collection of plastic.
 - o Product filling: Baler to be provided.
 - o Product packaging: Baler to be provided.
- Intermediate processing and transfer
 - o From baler to staging of baled items in designated area will be collected weekly on a weekday between 7am to 10 pm.
- Removal
 - o Loading of baled items via forklift to truck for offsite recycling

4.1.3 Bulker bag

- Point of collection of bulker bag
 - o Product manufacturing: Baler to be provided.
- Intermediate processing and transfer
- From baler to staging of baled items in designated area will be collected weekly on a weekday between 7am to 10 pm.
- Removal
 - o Loading of baled items via forklift to truck for offsite recycling

4.1.4 Empty containers (IBC/ Drums)

- Point of collection of empty containers.
 - o Product manufacturing

- Intermediate processing and transfer
 - o Drums and IBCs from manufacturing to intermediate staging area
 - o Pick-up on a weekday between 7am –10pm (if required).
- Removal
 - o Loading via forklift to truck for offsite recycling or reuse

4.1.5 All other recyclable waste

- Point of collection of other recyclables.
 - o Product filling: Bins to be provided.
- Intermediate processing and transfer
 - o Staged in designated area
- Removal
 - o Loading via forklift to truck for offsite recycling

4.2 Waste Stream 2: General waste

4.2.1 Wooden pallets (single use)

- Point of collection of wooden pallets.
 - o Product manufacturing
- Removal
 - o Loading of pallets via forklift to truck for offsite disposal

Site will continue to work with suppliers to eliminate use of single use wooden pallets.

4.2.2 Other general waste

- Point of collection of general wastes.
 - o Product manufacturing: Bins to be provided
 - o Product filling: Bins to be provided
 - o Product packaging: Bins to be provided
 - o DAF: Bins to be provided
 - o Outdoor: Bins to be provided
- Intermediate processing and transfer
 - o All small bins shall be emptied in an exchangeable waste bin
- Removal
 - o Exchange of the waste bins to occur daily Monday to Friday 7am – 10pm.

4.3 Waste Stream 3: Metal waste

- Point of collection of metal
 - o Maintenance workshop, single small skip
- Removal
 - o Removal of the skip by qualified recycler when full.

4.4 Waste Stream 4: Liquid waste

- Point of collection of liquid
 - o Product manufacturing
- Intermediate processing and transfer
 - o Inside the building
- Removal
 - o Loading of pallets via forklift to truck for offsite disposal as required

4.5 Waste Stream 5: Trade waste plant residual material

- Point of collection of waste
 - o Waste-water treatment plant
- Intermediate processing and transfer
 - o Storage tanks
- Removal
 - o Unloading directly to tanker when required

5. Waste Minimisation

Jalco Australia Pty Ltd is committed to minimisation of waste from the site at 8 Johnston Crescent Horsley Park. The site is committed to recycling and reuse wherever possible and to the minimisation of material sent to landfill waste streams.

5.1 Implementation, Assessment and Evaluations

During the environmental reviews of the facilities, areas for potential waste minimisation are identified, and recommendations will be made regarding alternatives to the present use, management, or deposition of waste materials. The facility waste minimisation team will periodically determine if waste minimisation recommendations are being implemented to the fullest extent, reasonably achievable, and assist production departments with implementation guidance.

5.2 Employee Training on Waste Minimisation

Information about waste minimisation will be disseminated to all departments at the site. Where applicable, information regarding waste minimisation will be to inform employees of the impact that can result from the way they conduct their work procedures. Suggestions and input from employees regarding potential waste minimisation procedures will be encouraged.

5.3 Characterisation of Waste Generation

The site is responsible for tracking and filing of manifests. All waste manifests are stored on a software. Quantities of wastes generated by type will be kept to

determine frequency of generation and to identify potential reductions in waste generation. Waste accounting, tracking, and generation are reviewed periodically.

5.4 Waste Minimisation Assessments

An annual assessment of the waste minimisation efforts will be made by the waste minimisation team. The goals of the assessment are to, whenever applicable:

- Identify opportunities in a process where materials can be prevented from becoming wastes (i.e. using less material, finding substitutes and promoting recycling or reuse.
- Analyse waste minimisation opportunities based on true costs associated with waste management and clean up through waste stream characterisation; identification and tracking of wastes, determining the cost of treatment, storage, and disposal; allocation costs to the activities responsible for waste generation; and identification of opportunities for waste minimisation.

5.5 Program Implementation and Evaluation

The waste minimisation program will be reviewed annually. The review will assess the programs progress, review implementation performance, and if necessary modify and establish new goals.

6. Conclusion

Waste management figures, goals and objectives will be reviewed by the site on a regular basis and changes to objectives and goals will be incorporated into the document.

The document will be maintained by Senior HSES Advisor at the site and will be accessible to any legitimate inquiry. The plan will detail quantities of waste produced, methods of disposal, storage and handling details of wastes, bunding, and containment of wastes etc.

7. Reference Documents

Fairfield Citywide Development Control Plan dated 2013

Fairfield Local Environmental Plan dated 2013

Jalco Manufacturing Facility State Significant Development Assessment SSD - 21190804 dated July 2022

Horsley Logistics Park – Jalco Homecare Manufacturing Facility SSDA dated August 2021

NSW EPA (2014) NSW Waste Avoidance and Resource Recovery Strategy 2014-21

8. Document Control

Date	Description	Revision No.	Author
12/08/2022	New document	0	Christine Kazzi