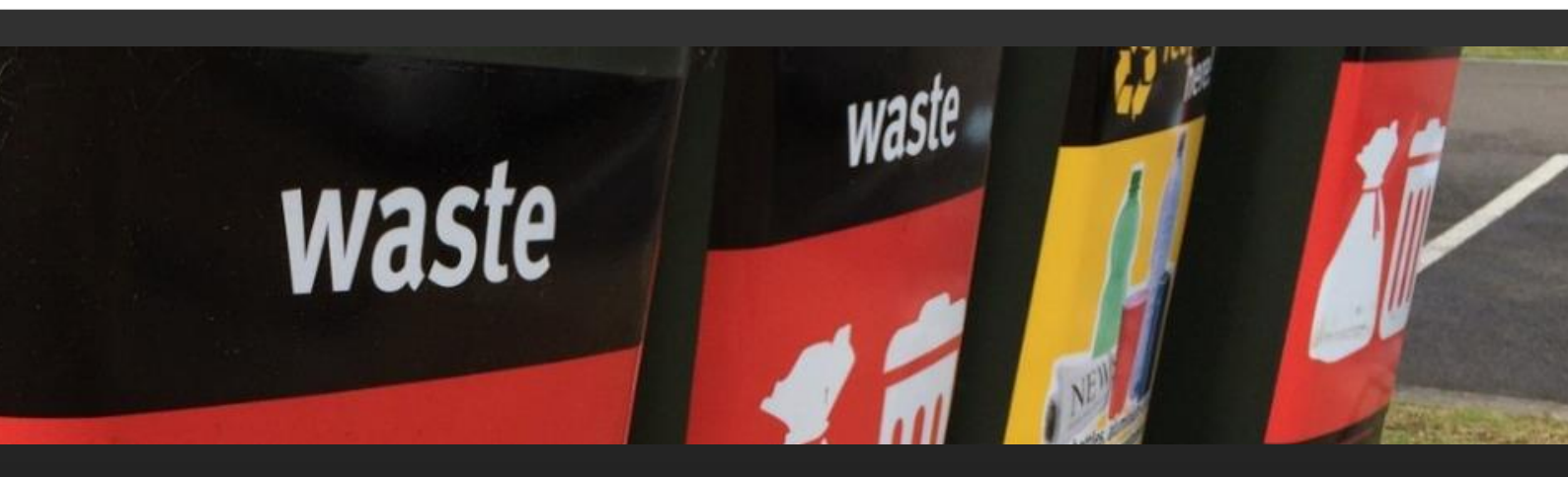


**ADVERTISED
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National Vietnam Veterans Museum
Waste Management Plan



210306WMP001D-F.docx

18 December 2023

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1 INTRODUCTION

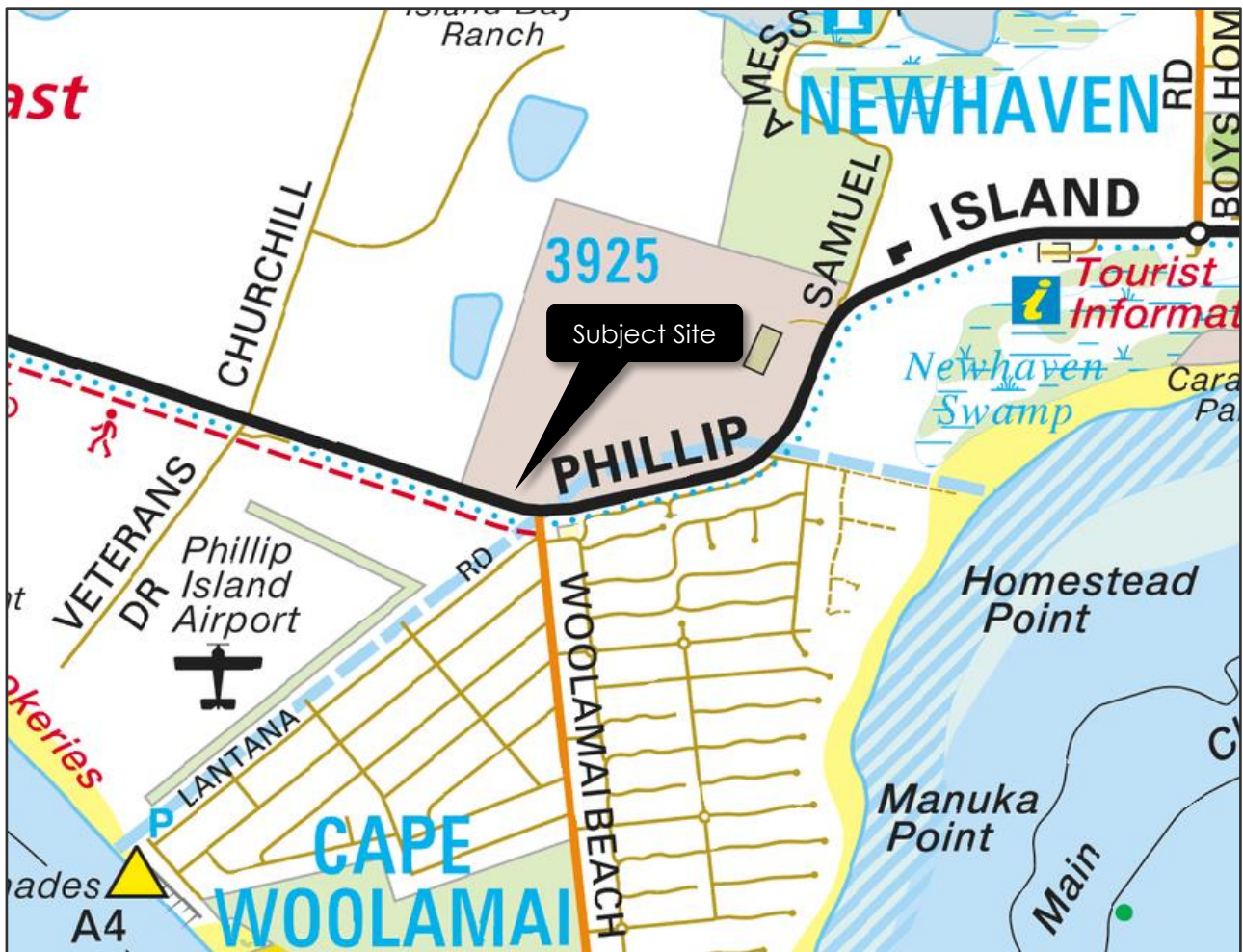
onemilegrid has been requested by Tract to prepare a Waste Management Plan for the proposed National Vietnam Veterans Museum at 24 Churchill Road, Newhaven.

The preparation of this management plan has been undertaken with due consideration of the Sustainability Victoria Better Practice Guide for Waste Management and Recycling in Multi-unit Developments and relevant Council documentation.

2 EXISTING SITE CONDITIONS

The subject site is located on the north side of Phillip Island Road opposite the Phillip Island Road/Woolamai Beach Road intersection. The site is addressed as 24 Churchill Road, Newhaven, as shown in Figure 1.

Figure 1 Site Location



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The site is currently vacant with access provided directly from Phillip Island Road to the west of the intersection of Phillip Island Road/Woolamai Beach Road.

3 DEVELOPMENT PROPOSAL

3.1 General

The subject site is proposed to be developed as the new site for the National Vietnam Veterans Museum.

The museum includes exhibition areas and a cafe, as well as ancillary uses such as a gift shop, library, classrooms and staff training areas. These uses are considered ancillary, as all the uses on the site will be governed by a limit of 200 patrons and 30 staff.

The exhibition hall, conservation area, library, archive and giftshop have a combined area of approximately 3,334 m². The café area is approximately 267 m².

Vehicle access to the development is proposed to Phillip Island Road via connection of a fourth leg on the northern side of the Phillip Island Road/Woolamai Beach Road roundabout. This leg of the intersection will connect to the parking areas at the eastern side of the building.

A secondary access road is proposed from the primary site access running around the western end of the building to the loading and services area on the north side of the site. This secondary road would be for service vehicle access to the site only.

3.2 Waste Management

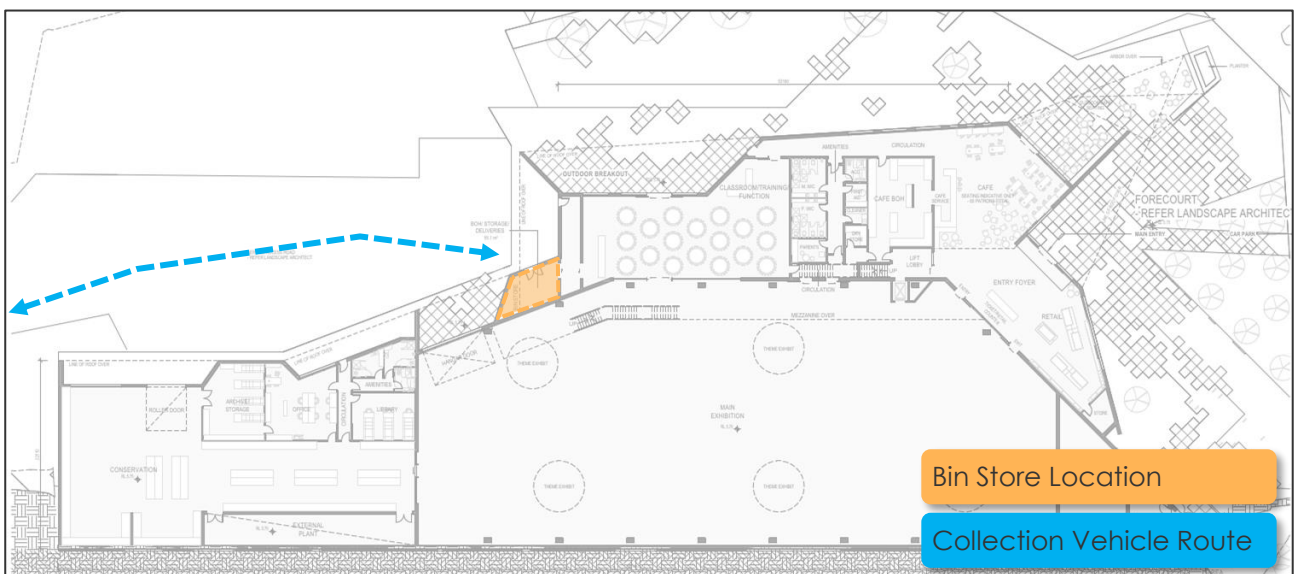
It is proposed to utilise a private contractor to manage the collection and disposal of all waste streams associated with the development.

Bins for the waste will be stored within a dedicated bin storage area adjacent the service area at the rear of the development. Bins will be transferred by the waste collection contractor from the bin storage room to the collection location on the specified collection days. Following collection, bins will be returned to the bin room.

Staff of the café will transfer waste from the back of house areas to the bin storage area and dispose of it in the appropriate bin provided. The remaining waste will be collected by cleaning contractors and transferred and disposed of in the appropriate bin.

The nominated bin store room is located as shown in Figure 2.

Figure 2 Ground Floor Plan – Bin Store Location



4 WASTE GENERATION

4.1 Sustainability Victoria Recommended Rates

Waste generation rates published within Sustainability Victoria's "Better Practice Guide for Waste Management and Recycling in Multi-unit Developments" suggest the following rates for commercial uses:

Table 1 Sustainability Victoria Recommended Rates – Commercial

Use	Garbage Rate	Recycling Rate
Café	300L per 100 m ² per day	200L per 100 m ² per day
Offices	10L per 100 m ² per day	10L per 100 m ² per day

The waste generation rate for office uses has been adopted for the development outside of the café use as it is expected that in general the site will generate low levels of waste.

The exhibition hall itself is expected to generate minimal waste with any waste generation likely to be a result of what patrons have brought in with them (water bottles, food waste, packaging). Similarly, the archive, library and conservation areas are not expected to generate high levels of waste.

Any functions held within the training area are expected to be catered for by the café with operation of the general café seating area to be closed. As a result, any waste generated is considered to be accounted for in the café waste generation rates.

4.2 Expected Waste Generation

4.2.1 Garbage and Recycling

Based on the adopted Sustainability Victoria waste generation rates, the following weekly waste generation is expected.

The development is expected to operate 7 days per week.

Table 2 Expected Waste Generation – Cafe

Stream	Floor Area	Rate/100m ² /Week	Total Waste/Week
Garbage	267m ²	2,100 litres	5,607 litres
Recycling	267m ²	1,400 litres	3,738 litres

Table 3 Expected Waste Generation – Museum

Component – Stream	Floor Area	Rate/100m ² /Week	Total Waste/Week
Garbage	3,334m ²	70 litres	2,334 litres
Recycling	3,334m ²	70 litres	2,334 litres

4.2.2 Organics

For café uses, approximately 50% of garbage generation consists of food waste. As such it is proposed to provide an organics collection service to divert a portion of the garbage generation from landfill.

Application of this rate to the expected weekly garbage generation would result in the following volumes of garbage and organics per week.

Table 4 Organic and Garbage Generation

<i>Stream</i>	<i>Waste/Week</i>
Garbage	2,804 litres
Organics	2,804 litres
Total	5,608 litres

Based on the above, the provision of an organics collection service would divert up to 2,804 litres of organics from landfill per week.

The total amount of garbage generated by the café would therefore be reduced by a commensurate amount.

4.2.3 Green Waste

It is expected that any maintenance and gardening undertaken on-site will be managed by a contractor appointed by the operator. The appointed contractor will be responsible for the disposal of any green waste accumulated during the course of their duties.

4.2.4 Hard Waste

Hard waste services will also be provided by the private contractor, as required under the management of the operator. Hard waste will be within the development between collections, with collection to occur within the site via the service area at the rear of the development.

5 BIN REQUIREMENTS

5.1 Bin Provision and Specifications

It is proposed to utilise a private waste contractor for all waste streams associated with the development.

Consequently, the following bins will be required for the proposed development.

Table 5 Bin Provision

<i>Stream</i>	<i>Total Waste/Week</i>	<i>Bin Size</i>	<i>Collection Frequency</i>	<i>Bins Required</i>
Garbage	5,138 litres	1,100 litres	2 x Weekly	3 bins
Organics	2,804 litres	1,100 litres	2 x Weekly	2 bins
Recycling	6,072 litres	1,100 litres	2 x Weekly	3 bins
Total				8 bins

It is noted that the size of organics bins is typically restricted to 660 litres. In this instance 1,100 litre bins are considered acceptable as the average volume contained within each between collections is around 700 litres.

The standard bin dimensions are provided below.

Table 6 Bin Specifications

Capacity	Width	Depth	Height	Area
1,100 litres	1.25m	1.10m	1.35m	1.38m ²

Bin lids will be colour coded to the Australian Standard (AS4123) or to the standard colour specifications of the private contractor.

5.2 Bin Storage

As indicated in Figure 3 below, it is proposed to provide a bin storage area on the ground floor of the proposed development, capable of accommodating eight 1,100 litre bins.

The proposed bin storage room is therefore appropriately sized to accommodate the provision of bins in accordance with the anticipated waste generation. Some additional area is also provided within the bin storage room to allow for the temporary storage of bulk items and packaging, under the control of the operator.

Furthermore, the bin storage room is located appropriately for access by staff and is secured from the common areas.

The bin storage room shall be ventilated, and cleaned regularly by the operator or waste collection contractor, to minimise odour.

Figure 3 Bin Storage Area



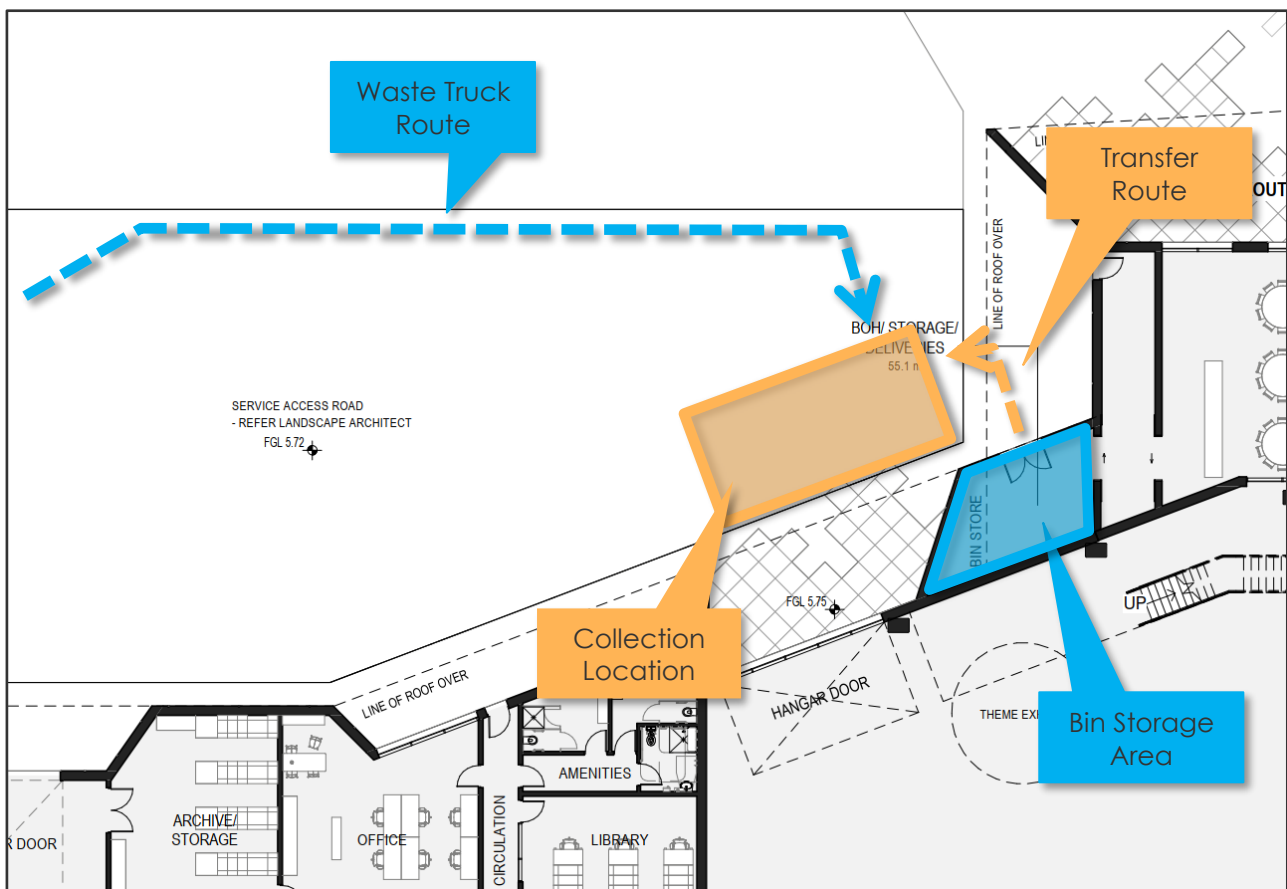
5.3 Bin Collection

On collection days, the waste collection vehicle will enter the site via the Phillip Island Road roundabout and circulate along the service road to the loading area at the rear of the development and proceed adjacent the bin storage area. The contractor will retrieve the bins from the bin storage area to be emptied, and then return them after collection. The waste collection vehicle will then exit the site in a forward direction.

An excessive area (up to 20m wide) is provided at the rear of the buildings, ensuring that loading vehicles for waste collection will have sufficient space to turn around.

The proposed bin collection details are shown in Figure 4.

Figure 4 Bin Collection Details



5.4 Bin Cleaning

The operator shall ensure that the bins are kept in a clean state, to minimise odours and to discourage vermin. This may include regular cleaning by a third party, cleaning by the waste contractor, bin swapping by the waste contractor, or maintenance by staff.

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6 WASTE MANAGEMENT

6.1 Best Practice Waste Management

Best Practice Waste Management is an initiative designed to reduce the amount of waste generated through encouraging a change of behaviour and action on waste management and moreover recycling.

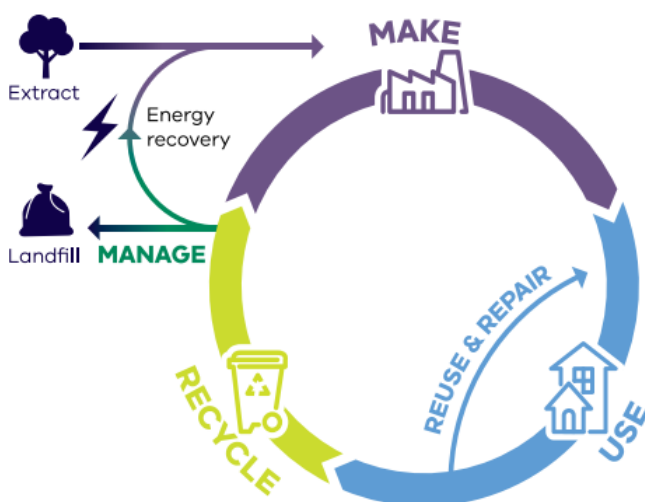
The benefits of reducing waste generation are far reaching and have been identified as significantly important by Council and the Victorian Government.

Recycling Victoria: A New Economy is a policy and 10-year action plan, prepared by the Victoria Government, to “deliver a cleaner, greener Victoria, with less waste and pollution, better recycling, more jobs and a stronger economy”.

Four overarching goals have been identified in order to achieve a circular economy in relation to waste, as below:

1. MAKE – Design to last, repair and recycle;
2. USE – Use products to create more value;
3. RECYCLE – Recycle more resources;
4. MANAGE – Reduce harm from waste and pollution.

Figure 5 Resource Flows in a Circular Economy



In relation to the proposed development, recycling is of key importance, and in this regard, the operator shall encourage staff to participate in minimising and reducing solid waste production by:

- Promoting the waste hierarchy, which in order of preference seeks to:
 - + Avoid waste generation in the first place;
 - + Increase the reuse and recycling of waste when it is generated; and
 - + Recover, treat or contain waste preferentially to;
 - + Its disposal in Land Fill (which is least desirable).
- Providing information detailing recyclable materials to ensure that non-recyclable materials do not contaminate recycling collections;
- Providing information regarding safe chemical waste disposal methods and solutions, including correct battery and electronics disposal methods;
- Encouraging composting for staff; and
- Providing tips for recycling and reusing waste, including encouraging the disposal of reusable items in good condition via donations to Opportunity Shops and Charities.

6.2 Cafe Waste Minimisation

Cafes can do a lot to minimize or reduce waste, by incorporating simple recycling and waste reduction programs and procedures that will eliminate much of the waste otherwise disposed of. These can include the following:

- Avoid over-purchasing. Over-purchasing causes spoilage and waste. Take inventory frequently and adjust orders where necessary;
- Store items in the order you purchase them. Use older items first. Place newly purchased items at the back of the shelves and train employees on the order of use;
- Inspect deliveries. Many deliveries include unusable meats and perishable items which may have opened or spilled during shipment;
- To avoid spoilage, store food tightly and appropriately, eliminating air in containers;
- Use storage containers that can be reused and request that food be delivered in reusable and recyclable containers;
- Use up all of a food product by reviewing your menu; and
- Consider the use of composting for all perishable items instead of discarding them as waste.

6.3 Bin Usage

Staff of the café will transfer waste from the back of house areas to the bin storage area and dispose of it in the appropriate bin provided. The remaining waste will be collected by cleaning contractors and transferred and disposed of in the appropriate bin.

Garbage will be bagged and disposed of in the provided bins, located in the bin storage area.

Recyclables (non-bagged) will be disposed of in the provided bins, located in the bin storage area. Cardboard boxes should be flattened, and containers rinsed and cleaned prior to disposal in the provided bins.

6.4 Signage

To avoid contamination between garbage streams, bin lids will be colour coded in accordance with contractor standards, to ensure the bin type is easily distinguishable. Furthermore, bins should include typical signage (preferably on the bin lid) to reinforce the appropriate materials to be deposited in each bin. Example signage available from [Sustainability Victoria](#) is shown below.

Figure 6 Example Waste Signage



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6.5 Noise Control

While it is noted that the subject site is relatively isolated, to minimise the disturbance to the surrounding areas during waste collection, the following the criteria specified by the EPA should be adhered to:

- Collections occurring once a week should be restricted to the hours:
 - + 6:30am to 8:00pm, Monday to Saturday;
 - + 9:00am to 8:00pm, Sunday and Public Holidays;
- Collections occurring more than once a week should be restricted to the hours:
 - + 7:00am to 8:00pm, Monday to Saturday;
 - + 9:00am to 8:00pm, Sunday and Public Holidays;
- Compaction should be carried out while the vehicle is moving;
- Bottles should not be broken up at the collection site;
- Routes which service predominantly residential areas should be altered regularly to reduce early morning disturbances; and
- Noisy verbal communication between operators should be avoided where possible.

6.6 Food Standards Code

Division 2 of the Food Standard Code details requirements for the design and construction of food premises. With regard to garbage and recycling, Section 6 of Division 2 details 3 requirements for the storage of garbage and recyclable matter. A review of these requirements with respect to the proposed café and restaurant waste storage area follows:

(a) adequately contain the volume and type of garbage and recyclable matter on the food premises;

The proposed bin storage room has been designed to accommodate the required number of bins for the volume of garbage and recycling generated by the uses.

(b) enclose the garbage or recyclable matter, if this is necessary to keep pests and animals away from it; and

The proposed bin storage room is enclosed, secured and will be vermin proof.

(c) are designed and constructed so that they may be easily and effectively cleaned.

The proposed bin storage room will be constructed to ensure effective cleaning.

6.7 Tenant Information

To ensure all staff and tenants are aware of their responsibilities with regard to waste and bin management, an information package will be provided by the operator to all staff and tenants, including the following information:

- A copy of this Waste Management Plan;
- Methods and techniques for waste reduction and minimisation;
- Information regarding bin collection days and requirements; and
- Tenant and staff responsibilities with regard to bin usage, storage, and collection.

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7 OCCUPATIONAL HEALTH & SAFETY RESPONSIBILITIES

The site operator shall ensure compliance to all relevant OH&S regulations and legislation, including the following:

- Worksafe Victoria Guidelines for Non-Hazardous Waste and Recyclable Materials

8 CONTACT INFORMATION

8.1 Council

Bass Coast Shire Council

Phone: (03) 5671 2211 (Customer Service)

Web: www.basscoast.vic.gov.au

Email: basscoast@basscoast.vic.gov.au

8.2 Contractors

iDump

Services: Private contractor

Phone: 1300 443 867

Web: www.iDump.com.au

Email: info@idump.com.au

Cleanaway

Services: Private contractor

Phone: 131 339

Web: www.cleanaway.com.au/

JJ Richards & Sons

Services: Private contractor including bin tugs

Phone: (03) 9703 5222

Web: www.jjrichards.com.au

Email: operations.melbourne@jjrichards.com.au

WasteWise

Services: Private contractor

Phone: 1300 550 408

Web: www.wastewise.com.au

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8.3 Equipment

Eco-Safe Technologies (odour control equipment)

Phone: 0411 335 753

Web: www.eco-safe.com.au

Email: info@eco-safe.com.au

8.4 Others

Sustainability Victoria

Services: Sustainable Waste Management initiatives and information

Phone: 1300 363 744 (Energy, Waste and Recycling)

Web: www.sustainability.vic.gov.au

Email: info@sustainability.vic.gov.au

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