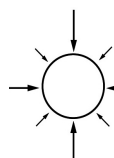


PRELIMINARY
ENVIRONMENTAL ASSESSMENT
WASTE AND RESOURCE MANAGEMENT FACILITY
35 FRANK STREET
WETHERILL PARK



NEXUS

Environmental Planning Pty Ltd

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ENVIRONMENTAL ASSESSMENT
WASTE AND RESOURCE MANAGEMENT FACILITY
35 FRANK STREET
WETHERILL PARK

2 September 2015

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Attachment 1: Letter from Simsmetal Holdings Pty Ltd.

Attachment 2: Schematic diagram of Adelaide facility.

1. INTRODUCTION

Resourceco RRF Pty Ltd (Sydney) proposes to establish a Waste and Resource Management Facility at:

- Lot 31, DP 589097.

The location of the site is No.35 Frank Street, Wetherill Park (**the Site**).

Figure 1 shows the location of the Site.

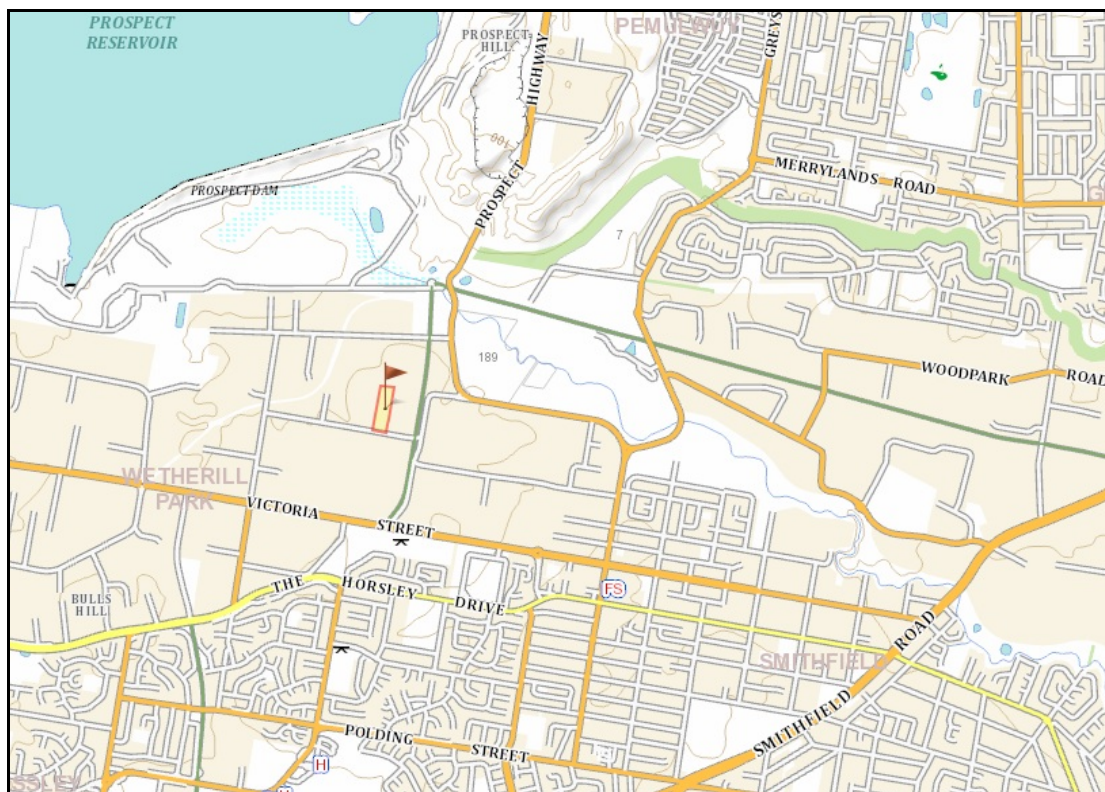


Figure 1: Location of the Site (© Google Maps).

The Site is located on the northern side of Frank Street to the west of the intersection of Walter Street with Frank Street.

Figure 2 is an extract from an aerial photograph of the Site.

Figure 3 shows the cadastral detail of the Site and surrounding land. The Site is in the ownership of Simsmetal Holdings Pty Ltd. A letter from Simsmetal Holdings Pty Ltd granting consent to the lodgement of the Preliminary Environmental Assessment is at **Attachment 1**.



Figure 2: Aerial photograph showing the Site and the existing extraction operation on the Site.



Figure 3: Plan showing the borders of the Site and cadastral details (© SIX Maps 2015).

The Site is zoned IN1 General Industrial pursuant to the Liverpool Local Environmental Plan 2013 (**LEP 2013**). An extract from the Map is at **Figure 4**.

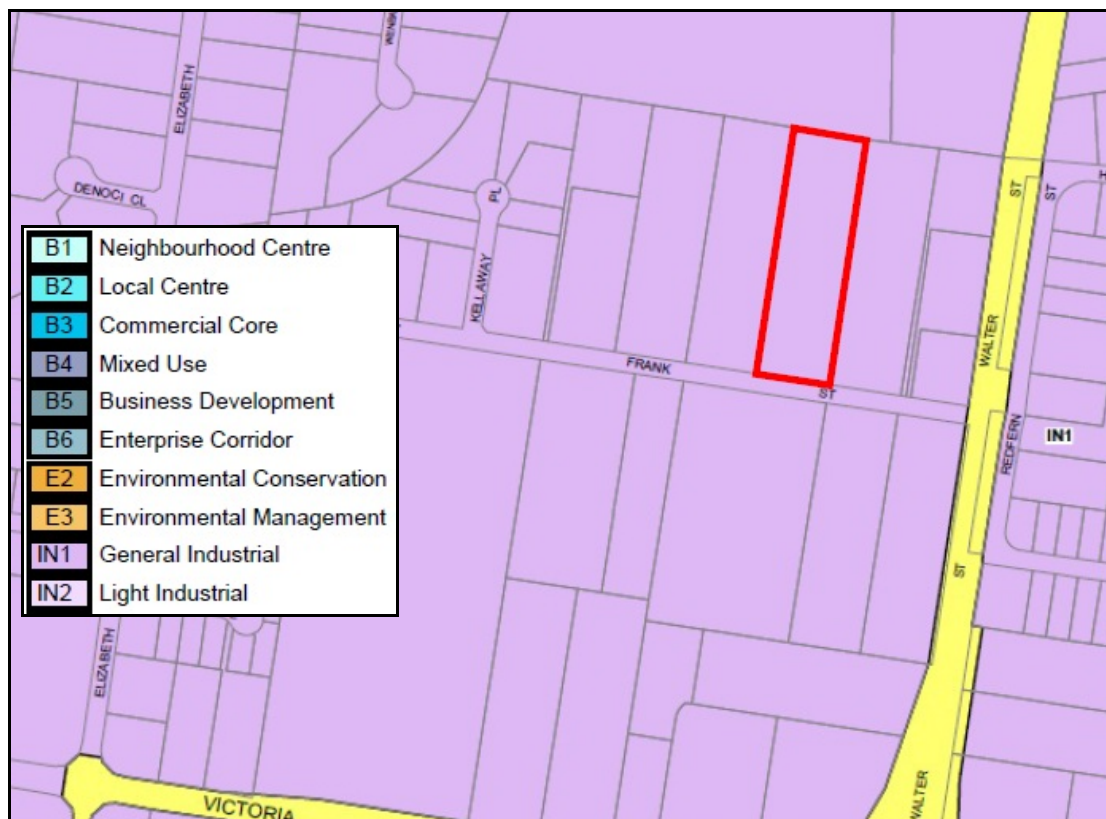


Figure 4: Extract from the LEP 2013 Map with the Site outlined in red.

The proposed development is permitted in the IN1 General Industrial zone.

2. PROPOSED DEVELOPMENT

It is proposed to establish a Waste and Resource Management Facility on the Site which will process waste material to produce "*Processed Engineering Fuel*" (**PEF**) and other reusable commodities including aggregates, metal, timber and soil.

PEF is primarily a plastic-based material with high calorific value, derived from waste streams such as Commercial and Demolition (**C&D**) waste, Commercial and Industrial (**C&I**) waste and pre-processed Municipal Solid Waste (**MSW**). This project will process dry non-putrescible C&I and mixed C&D waste streams.

PEF is an alternative fuel used in energy intensive industries to replace fossil fuels, such as coal and pet coke, and is most commonly used in the cement manufacturing industry.

The recycling combustible waste into PEF brings the following benefits:

- Diversion of waste from landfill

- Conservation of natural fossil fuel by replacing it with sustainable green fuel
- Achieving carbon emission reduction in the cement manufacturing process
- Cost saving for industry through replacement of fossil fuel with PEF.

The source material is comprised of dry mixed light loads which usually contain a mix of timber, metals, plastics, cardboard and paper. The material stream may also include small amounts of concrete, bricks and rubble.

The source material is sorted and the ferrous and non-ferrous metals, inert fractions such as aggregates, soil, bricks and concrete, and non-recyclables are removed from the combustible portion of this material stream. The combustible material is then processed for manufacturing of PEF.

All salvaged metals are recycled and ResourceCo further processes the inert fractions such as aggregates and soil for resupply to the civil construction market.

The manufacture of PEF is carried out using a fully automated process, although some manual picking is undertaken in the process. A similar facility to that which is proposed for the Site currently operates in Adelaide. A schematic diagram of that facility is provided as **Attachment 2**.

The proposed facility has the capability to convert up to 250,000 tonnes of raw material per annum into approximately 100,000 tonnes of PEF and over 100,000 tonnes of reusable commodities. All raw materials are separated during processing and over 90% of the material is recycled.

PEF has significant calorific value and can be used as a fuel substitute for coal and gas in high combustion facilities. The use of PEF can benefit end-users in two ways:

- the energy replacement value from utilising PEF instead of traditional fossil fuels
- the carbon and renewable energy benefits:
 - through reduced fossil fuel use
 - the reduction in landfill emissions.

Material would arrive at the Site and would be taken over a weighbridge. Visual inspection of the load would take place at this time to determine the category of material. The driver would be issued with a docket and directed to the relevant section of the Site for placement of the material for processing.

No wet or putrescible waste would be processed at the facility.

Pursuant to State Environmental Planning Policy (State and regional Development) 2011:

- (1) *Development is declared to be State significant development for the purposes of the Act if:*
 - (a) *the development on the land concerned is, by the operation of an environmental planning instrument, not permissible without development consent under Part 4 of the Act, and*
 - (b) *the development is specified in Schedule 1 or 2.*

Schedule 1 of the State Policy defines a *Waste and resource recovery facility* as:

Waste and resource management facilities

- (1) *Development for the purpose of regional putrescible landfills or an extension to a regional putrescible landfill that:*
 - (a) *has a capacity to receive more than 75,000 tonnes per year of putrescible waste, or*
 - (b) *has a capacity to receive more than 650,000 tonnes of putrescible waste over the life of the site, or*
 - (c) *is located in an environmentally sensitive area of State significance.*
- (2) *Development for the purpose of waste or resource transfer stations in metropolitan areas of the Sydney region that handle more than 100,000 tonnes per year of waste.*
- (3) *Development for the purpose of resource recovery or recycling facilities that handle more than 100,000 tonnes per year of waste.*
- (4) *Development for the purpose of waste incineration that handles more than 1,000 tonnes per year of waste.*
- (5) *Development for the purpose of hazardous waste facilities that transfer, store or dispose of solid or liquid waste classified in the Australian Dangerous Goods Code or medical, cytotoxic or quarantine waste that handles more than 1,000 tonnes per year of waste.*
- (6) *Development for the purpose of any other liquid waste depot that treats, stores or disposes of industrial liquid waste and:*
 - (a) *handles more than 10,000 tonnes per year of liquid food or grease trap waste, or*
 - (b) *handles more than 1,000 tonnes per year of other aqueous or non-aqueous liquid industrial waste.*

The proposed facility would be a *"resource recovery or recycling facility"* which handles more than 100,000 tonnes per year of waste. A *"resource recovery facility"* is defined as:

resource recovery facility means a building or place used for the recovery of resources from waste, including works or activities such as separating and sorting, processing or treating the waste, composting, temporary storage, transfer or sale of recovered resources, energy generation from gases and water treatment, but not including re-manufacture or disposal of the material by landfill or incineration.

Note. *Resource recovery facilities are a type of waste or resource management facility.*

A *"waste or resource management facility"* is defined as:

waste or resource management facility means any of the following:

- (a) a resource recovery facility,*
- (b) a waste disposal facility,*
- (c) a waste or resource transfer station,*
- (d) a building or place that is a combination of any of the things referred to in paragraphs (a)-(c).*

Having regard to the above, the proposed development is State Significant Development.

3. KEY ISSUES

Key issues for environmental assessment of the proposed development relate to:

- Truck numbers and Traffic Impact
- Air Quality
- Acoustic Impact
- Soil and Water Management
- Hazard and Risk Assessment
- Rehabilitation of the Site.

Truck Numbers and Traffic Impact

The truck movements associated with the proposed development have the potential to impact on the local road network.

A detailed traffic impact assessment would be conducted as part of the Environmental

Impact Statement for the proposed development.

Air Quality Impact

The proposed development would have the potential to impact on the air quality of the locality.

A detailed air quality impact assessment would be undertaken as part of the Environmental Impact Statement for the proposed development.

Acoustic Impact

The proposal would generate noise which has the potential to impact on the amenity of the locality.

A detailed acoustic impact assessment would be undertaken as part of the proposed development.

Soil and Water Management

A detailed water balance analysis together with soil and water management plans would be developed as part of the Environmental Impact Statement for the proposed development.

Rehabilitation

The Site has been used for many years by Simsmetal Holdings Pty Ltd. As such, the Site is potentially contaminated. A Preliminary Contamination Assessment has been undertaken by Simsmetal Holdings and would form part of the Environmental Impact Statement.

Consultation

In the preparation of the Environmental Impact Statement, consultation would be undertaken with:

- Fairfield Council.
- NSW EPA.
- The NSW Office of Environment and Heritage.
- NSW Office of Water.
- NSW Department of Industry and Investment.
- NSW Roads and Maritime Services.

Attachment 1



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Ben Sawley
COO ResourceCo
ResourceCo Pty Ltd
Corner Wingfield and Hines Roads
WINGFIELD SA 5013

Dear Ben

**Submission of State Significant Development Application
Waste Management Facility
Lot 31, DP 589097
35-37 Frank Street, Wetherill Park**

Simsmetal Holdings Pty Limited, the registered landowner of the subject site, grants landowner's consent to ResourceCo Pty Ltd and its agents to lodge a development application and any required accompanying documents for a resource management facility on the subject land.

Yours sincerely,

Per 

Rod Bonnette
General Manager – NSW & ACT
Sims Metal Management

Attachment 2

PEF MANUFACTURING PROCESS

