



# NAWMA

Northern Adelaide Waste Management Authority



## *Solutions to Regional Waste Management for the Northern Adelaide Community*



# Introduction

*The facility will feature the most advanced waste baling technology to process residual waste for the site at Uleybury*

As individuals, communities, businesses, governments and nations, we have a role and responsibility to contribute to sustainable development to preserve and enhance the natural environment.

The management of waste is a key aspect of that responsibility. It includes minimising the amount of waste that goes to landfill and maximising the quantity of waste that can be recycled.

In this way, we can all work together to ensure future generations inherit a healthy, vibrant and life-sustaining environment.

For more than a decade, the Northern Adelaide Waste Management Authority (NAWMA) has delivered cost efficient and environmentally sustainable waste services in South Australia.

NAWMA works closely with Local Government, industry and residents to implement leading edge practices to:

- reduce landfill;
- encourage materials recycling and recovery; and
- promote awareness of the need to think globally and act locally about waste.

From 1993 to 2003, the percentage of material NAWMA diverted from landfill increased from 10 per cent to 37 per cent.

There are a number of issues influencing change in waste management in South Australia including the closure of the Adelaide City Council's Wingfield landfill in December 2004.

NAWMA is well positioned to offer a high degree of certainty in meeting new demands in waste management, recycling and recovery.

In response to the scheduled closure of the Wingfield landfill, NAWMA plans to further develop and extend its Material Recovery Facility at Bellchambers Road, Elizabeth West to incorporate a comprehensive and environmentally sustainable Waste Processing Facility that will be operational by the end of this year.

The Waste Processing Facility will feature the most advanced waste baling technology to process residual waste for NAWMA's licenced landfill site at Uleybury.

The operation and maintenance of the Waste Baling Plant will be contracted by NAWMA to its current Material Recovery Facility operations contractor, Regional Recyclers Pty Ltd, which has delivered professional and efficient waste management services in South Australia for more than 40 years.

NAWMA has identified as part of its strategic forward planning process the need for an integrated, long-term approach to recycling and environmentally sustainable waste disposal.

Through its strong partnership with Regional Recyclers Pty Ltd, NAWMA's innovative and timely proposal for the Elizabeth site will deliver operational and environmental benefits in the responsible management of waste for its member Councils – the Cities of Salisbury and Playford and the Town of Gawler – and for other rural Councils in the region.



## The waste baling station

*the world's most advanced system for compacting bales of domestic and industrial waste*

NAWMA's new Waste Processing Facility at Elizabeth West will feature the FAES High Baling technique, which is considered the world's most advanced system for compacting bales of domestic and industrial waste.

The Waste Baling Plant will cater for up to 100,000 tonnes of domestic non-recyclable waste and residual commercial and industrial waste each year. The baled waste will be loaded into purpose-built vehicles for transport to the baled landfill site at Uleybury. It will comprise only those components of the waste stream that cannot be effectively re-used, recycled or recovered.

Material considered suitable for re-use is recovered mechanically and manually. The existing Elizabeth West site is considered a showcase for the efficient sorting and processing of recyclable materials.

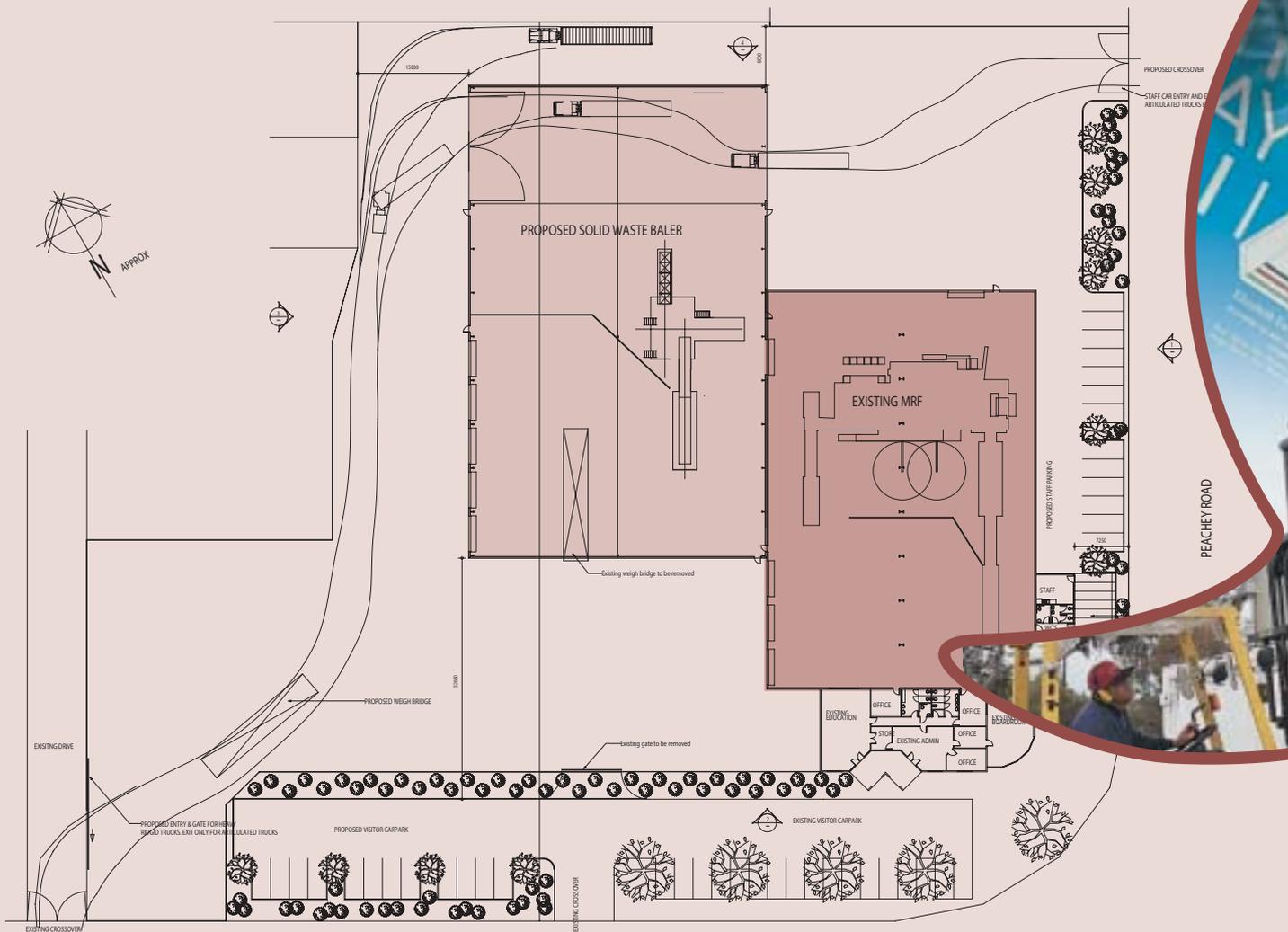
## Catering for the needs of communities

The Waste Baling Plant will receive waste from NAWMA's member Councils – Salisbury, Playford and Gawler – as well as waste transfer stations at Research Road, Salisbury; Andrews Road, Penfield and Paxton Street, Willaston.

Regional Councils in the near north will have access to the waste baling technology as increased pressure on rural landfill environmental standards are enforced by the Environment Protection Authority. Commercial and industrial waste sources from the region will also be targeted.



# The proposed site plan



## Site selection and buildings

NAWMA's existing material recovery operation is in a designated industrial zone and the Elizabeth West site is acknowledged as the premier facility of its type in South Australia.

The proposed expansion of the site is within the Environment Protection Authority's guidelines for resource recovery and waste transfer depots.

The Elizabeth West site is strategically positioned for the efficient receipt of waste and dispatch of processed products using arterial road networks.

Main features and activities at the site will include:

- Waste Baling Station operations;
- Material Recovery Facility operations to process kerbside collected recyclable materials and pre-sorted commercial and industrial waste;
- the Environmental Education Centre; and

- NAWMA administration.

The Waste Baling Plant will include an indoor waste receiving area, solid waste baler and an indoor bale loading area. All unloading, baling and processing of waste will be undertaken within this building.

## Education

The Waste Baling Plant will extend NAWMA's dedicated Environmental Education Centre at the Elizabeth West site. In 2002-2003, the centre welcomed 634 school-aged students, 250 adults from community groups and overseas visitors.

NAWMA's environmental education representatives also visited 13 local schools and presented waste management information to 322 students. NAWMA has 57 schools registered for recycling collection.

Education and community awareness programs will be complemented with a viewing platform to be constructed at the Uleybury landfill.



## *Environmental objectives for the site*

NAWMA will maintain its unwavering commitment to the highest standards of environmental care in waste management.

The development plan for the Elizabeth West site will deliver overall air and water quality improvements through resource conservation and diversion of waste from landfill.

Any liquid waste derived from the baling process will be collected and transported from the site to a licenced waste contractor.

The planned expansion of the site has included extensive scientific and engineering input to ensure structures and operations comply with industrial noise and odour guidelines.

An advanced Coolfog system, spraying a fine mist of water in the plant, will be operational on site to control any dust generated by waste processing and to assist in odour control if required.

Waste received from up to 4 pm Monday to Friday will be baled and transported to Ulleybury site on a same day basis. Waste received after 4pm will be baled and transported the following morning.

Material received late on Saturdays and Sundays will be baled and stored indoors, then transported to the landfill on Monday mornings.

## *Hours of operation*

The Material Recovery Facility and Waste baling Station will operate from 7am to 6pm Monday to Friday and 8am to 4pm on weekends.

## *Traffic management*

The site is in a general industrial zone and it is expected there will be minimal impacts from increased truck traffic.

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