BUILDING
GREENER
ROADS.

Your Infrastructure Sustainability Partners

Victoria

ABOUT ALEX FRASER

Australia's leading provider of sustainable construction materials

More than 61 million tonnes recycled

With more than 145 years of experience, a diverse team of people, and a network of recycling facilities and asphalt plants across Brisbane and Melbourne, Alex Fraser is recognised as a global leader in sustainability and construction materials supply.

To date, Alex Fraser has recovered and recycled more than 61 million tonnes of concrete, brick, rock, asphalt and glass to produce high quality, high specification, sustainable products needed to build greener roads, rail, bridges, pipelines and ports.

Recycling capability and scale

At Alex Fraser, we pride ourselves on our ability to meet our customers' needs. Our sites are responsible for producing up to 3.5 million tonnes of sustainable product each year, ensuring we can ably supply projects of any size.

That's equivalent to recycling 10 Empire State Buildings every year. By choosing Alex Fraser's Green Roads recycled construction materials, projects can reduce carbon emissions by up to 65%.

Our dedicated truck fleet, customer service centre, recycling and asphalt sites all work together to offer flexible supply solutions to suit any project.

Our valued customers rely on us to deliver volumes of locally procured, quality recycled product to their projects on time, on budget and to specification.

Part of the Heidelberg Materials Group of Companies

Acquired in 2018, Alex Fraser is proud to be part of the Heidelberg Materials Group of Companies. Heidelberg Materials is one of the world's largest producers of quality aggregates and concrete with more than 62 quarries, 255 concrete plants and a 1,500 strong logistics fleet in Australia. Alex Fraser and Heidelberg Materials work together to ably service major projects, like the Mordialloc Freeway and Cross River Rail, with quality and sustainable products.

Heidelberg Materials

Alex Fraser's recycling networks

Alex Fraser's Melbourne recycling facilities are located in Clarinda, Epping and Laverton. They process more than 2.5 million tonnes per annum.

The Brisbane recycling facilities are situated in Archerfield and Nudgee and together they recycle up to 1 million tonnes of material each year.

Green Roads Construction Materials

At Alex Fraser our mission is to enable our customers to build greener roads and infrastructure with the use of Green Roads Construction Materials. Our Green Roads Construction Materials are high-quality, high-recycled, asphalt, aggregates, roadbase and sand products.

Ideal supply network for Melbourne's major projects

- Our asphalt plant and recycling facilities are well placed to service major projects around Melbourne.
- All facilities have excellent access to arterial road networks supporting efficient delivery and reliable project scheduling.
- All sites have the scale required to stockpile raw high volumes of materials and finished products to efficiently supply major projects.

Excellence in asphalt paving operations

- Alex Fraser operates a modern fleet of well-maintained paving equipment, presented to industry leading standards.
- Green Roads Asphalt mixes meet the Department of Transport (VicRoads) specification, with approved inclusion of recycled asphalt, glass and plastics.
- Experienced paving contractors, with proven skills and workmanship, have been enlisted to support us in completing customer paving projects to the highest standard.
- An experienced and well-resourced group of managers, supervisors and operators, known for high standards of quality and timely delivery.
- Ongoing investment to ensure paving equipment fleet is replaced and increased ahead of demand, and to ensure we have the capability to cater for peak periods.

Safety

- Alex Fraser has a relentless focus on safety, to protect the health and wellbeing of our employees, contractors, customers, and the community at our project sites and our facilities.
- Alex Fraser's ongoing focus on managing contractors, working safely in close proximity to traffic, pedestrian safety and heavy vehicle safety has resulted in improved safety outcomes, including a Total Recordable Injury Frequency Rate of zero for our asphalt operations.
- Our asphalt operations have recently introduced proximity detection sensors across the skid steer fleet to help protect people working near asphalt paving crews.

Industry leading transport management

- Large fleet of late model, company owned and tightly managed contracted vehicles.
- Robust controls to ensure vehicle and driver are of a consistently high standard.
- Real time GPS speed reporting and regular reviews of GPS tracking and on-board camera footage.

High materials handling capacity

- Key plants are permitted to operate 24/7.
- Production capability of more than 5,000 tonnes of asphalt per day, and 15,000 tonnes of aggregates, roadbase and sand per day.
- Consistent operating practices across facilities ensures multiple supply points during peak periods of demand.
- Modern, well maintained plants ensure high quality product and reliable project scheduling.
- Multiple loading points at each plant to efficiently handle peak truck flows.

Quality Assurance

- Our high-quality recycled products are the result of decades of research, collaboration and continuous improvement. We work closely with research organisations and road authorities to validate product performance, delivering durable infrastructure while supporting more efficient maintenance and construction outcomes.

NATA-Accredited Testing

→ Our products are subject to rigorous, high-frequency testing, with NATA-accredited laboratories verifying compliance and ensuring consistent performance.

Government-Approved Specifications

→ All products are tested to meet stringent government and industry specifications, including VicRoads Department of Transport and Planning (DTP) requirements in Victoria, Department of Transport and Main Roads (TMR) requirements in Queensland, and specifications set by water authorities and local councils.

Research and Development

→ The use of recycled materials in roads, pipelines, rail and other civil infrastructure applications has been independently assessed by leading organisations, including NTRO, RMIT University, CSIRO and Swinburne University of Technology.

Proactive stakeholder engagement

→ Constructive working relationship with neighbours and regulators.

→ High standards and active management of driver behaviour.

→ Relationships with local schools and employment networks.

→ Support of charity partners – Search and Rescue Dogs Australia (SARDA), the Daniel Morcombe Foundation, Nudgee Beach Environmental Education Centre, Greenfleet, Riding for the Disabled and the Indigenous Literacy Foundation.

→ Community engagement focused on the achievement of positive social and environmental outcomes.

→ Demonstrating the positive outcome Green Roads Construction Materials provide government, industry and communities, providing a better, smarter and greener way to build our cities.

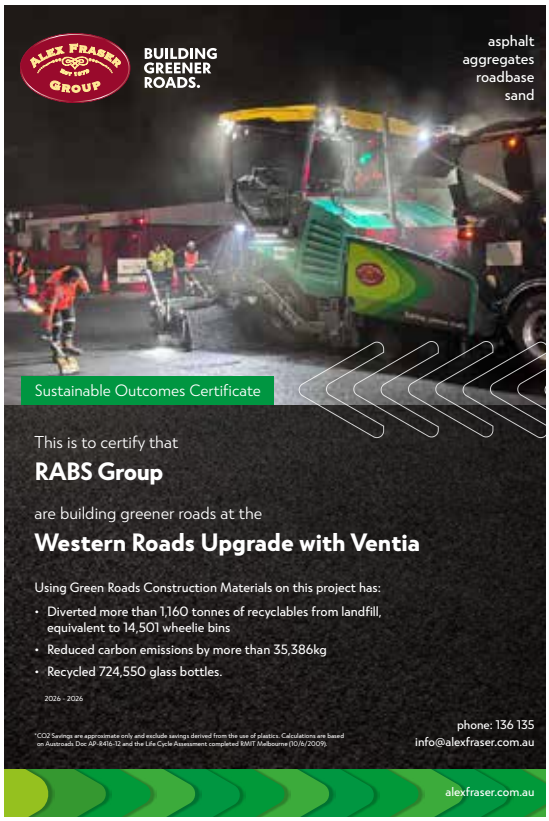
→ Alex Fraser's work is guided by the Heidelberg Materials Australia Reconciliation Action Plan endorsed by Reconciliation Australia in 2025.

Glass recycling plant

Environment

- Alex Fraser is committed to the sustainable use of resources in our operations, products, and services.
- Achieving positive environmental outcomes is at the core of our decision making, management and culture.
- As leaders in sustainability, we are committed to reducing waste, truck traffic, and carbon emissions.
- In 2020, our global parent company, Heidelberg Materials announced their 2030 Sustainability Commitments. Together, we are committed to reducing our environmental impact.
- Our Sustainability Commitments 2030 support our vision to build a more sustainable future, by embracing the following topic areas: Net Zero, Circular & Resilient, Safe & Inclusive, and Nature Positive.
  - We drive the decarbonisation of our sector and provide low-carbon products.
  - We drive circularity to reduce and reuse materials and natural resources.
  - We place the health and wellbeing of employees, communities, and suppliers at the core of our business operations.
  - We contribute to a nature positive world through our industry-leading biodiversity programme and sustainable water management.

  We continuously monitor the achievement of our sustainability commitments.
- A Sustainable Outcomes Certificate can be provided with every purchase of Green Roads materials, recognising the impact of choosing sustainable products on your project.
- Environmental Product Declarations (EPDs) are currently in development, with recycled aggregate EPDs launching in late 2026.



Sustainable Outcomes Certificate

Recycle Bin

https://bit.ly/422COr8

EPA Permits

→ EPA approval is our licence to operate. It gives us permission to conduct our recycling and resource recovery activities and demonstrates that we are managing environmental risks responsibly. Our Victorian Recycling operations have valid EPA permits to accept concrete, brick, combined masonry rubble, asphalt, glass and steel.

Building Greener Roads

For more than 30 years now, leading asset owners, developers and contractors have chosen Alex Fraser to supply sustainable construction materials to build greener roads and infrastructure.

To date, Alex Fraser has supplied more than 61 million tonnes of Green Roads Construction Materials to hundreds of major projects in Victoria and Queensland. Here are a few of the Green Roads we've helped build.

61M TONNES RECYCLED & SUPPLIED

219,439 TRUCK MOVEMENTS SAVED

411,323 TONNES CARBON SAVED

6.5 BILLION GLASS BOTTLES RECYCLED

VICTORIA

WESTERN ROADS UPGRADE

Upon completion of Victorian Government's Western Roads Upgrade Project approximately 190 million bottles worth of recycled glass were put to good use. More than 170,000 tonnes of roadbase and 200,000 tonnes of asphalt were used on Leakes, Dohertys and Palmers roads. Approximately 75,000 tonnes of the asphalt comprised of high-recycled-content products, supplemented with recycled glass sand.

Sustainability savings:

- **288,338** tonnes
- **3,310,000** wheelie bins
- **785** fewer trucks
- **1,729** tonnes

MORDIALLOC FREEWAY

Melbourne's Mordialloc Freeway has been called 'Australia's Greenest Freeway' for its unique design features and high percentage of recycled material.

The project delivered nine kilometres of dual carriageway between the Mornington Peninsula Freeway and Dingley Bypass, eight kilometres of paths and six new bridges, including four with new freeway entry and exit ramps.

Sustainability savings:

- **274,713** tonnes
- **512,511** wheelie bins (of glass alone)
- **572** fewer trucks
- **2,692** tonnes

CLYDE ROAD UPGRADE

The Clyde Road Upgrade in Berwick is a flagship project, designed to reduce congestion, improve safety, and connect communities.

Commencing in August 2024, the project has made excellent progress. Alex Fraser has supplied more than 50,000 tonnes of Class 2, Class 3 and Class 4 recycled concrete products to the project, with another estimated 20,000 tonnes to make its way to the project over the next 12 months.

Sustainability savings:

- **32,703** tonnes
- **40,879** wheelie bins (of glass alone)
- **93** fewer trucks
- **2,123** tonnes

MT DERRIMUT ROAD LEVEL CROSSING REMOVAL PROJECT

This project is one example of the Victorian Government's Recycled First Policy in action in rail application. This Level Crossing Removal Project used more than 70,000 tonnes of Alex Fraser's Green Roads Construction Materials in its construction.

Recycled type A capping, recycled concrete roadbase, recycled concrete aggregates and crushed rock went to this project – all supplied from our nearby Western Sustainable Supply Hub.

Sustainability savings:

- **74,341** tonnes
- **43,023** wheelie bins (of glass alone)
- **113** fewer trucks
- **2,367** tonnes

KEY

- **Resource savings**
- **Landfill savings**
- **Traffic savings**
- **Co² savings**

QUEENSLAND

CITY OF MORETON BAY

City of Moreton Bay built greener roads by resurfacing its streets with a high-quality, high-recycled asphalt, incorporating recycled plastic milk and shampoo bottles and reclaimed asphalt pavement.

The City worked with Alex Fraser to resurface six Caboolture streets with Green Roads PolyPave™; an innovative, high-performance asphalt product containing 14,000 hard plastic bottles.

Sustainability savings:

- **112** tonnes
- **1400** wheelie bins
- **770** kg

CROSS RIVER RAIL

Alex Fraser has reached a major milestone in its partnership with the Cross River Rail project, delivering more than 80,000 tonnes of recycled materials to one of Queensland's most significant infrastructure developments.

The Cross River Rail project is now in its sixth year of an anticipated eight-year timeline, with potential scope extensions. Throughout this period, Alex Fraser has demonstrated that recycled materials are not only fit for purpose but also cost-effective, delivering performance comparable to quarried aggregates.

Sustainability savings:

- **82,942** tonnes
- **49,827** wheelie bins (of glass alone)
- **230** fewer trucks
- **4,037** tonnes

CLEM 7

The Clem Jones Tunnel (CLEM7) provides a critical river crossing that bypasses the CBD to link Brisbane's growing northern and southern suburbs. Originally specified as a MR1.1 high quality roadbase, Alex Fraser developed a recycled concrete roadbase to engineers' specification specifically for the project. A cost saving was seen of an estimated $570,000, and the use of recycled materials also prevented the extraction of 120,000 tonnes of natural resources.

Sustainability savings:

- **108,889** tonnes
- **1,250,000** wheelie bins
- **296** fewer trucks
- **920** tonnes

GATEWAY UPGRADE NORTH

The Gateway Motorway North is a critical transport corridor to the northeast of Brisbane that links Brisbane Airport, Port of Brisbane and the Australia Trade Coast precinct with the wider Brisbane area and Sunshine Coast. Alex Fraser supplied aggregates, crusher dust and roadbase materials through civil constructor Lendlease. The use of Alex Fraser materials resulted in the equivalent of 26 households worth of carbon savings from entering the atmosphere.

Awarded an IS design rating of excellence

Sustainability savings:

- **22,500** tonnes
- **69,075** wheelie bins
- **171** fewer trucks
- **170** tonnes

*Co2 Savings are approximate only and exclude savings derived from the use of recycled plastics and/or glass. **Calculations are based on Austroads Doc AP-R416-12 and the Life Cycle Assessments completed for Alex Fraser Asphalt and Alex Fraser Recycled Crushed Concrete Roadbase by RMIT Melbourne (10/6/2009).

Choosing recycled for measurable sustainability outcomes

Choosing Alex Fraser recycled Construction materials can help you achieve better sustainability outcomes for your project and a successful IS Rating.

Outcome	IS Rating Credit Areas	Impact
Density savings	(Mat 1, Hea 1)	Typically, Alex Fraser materials are 10% lower density than virgin materials. Resulting in 10% less truck movements, 10% less vehicle emissions and significant cost savings.
Reduced carbon footprint	(Mat 1, Mat 2)	By choosing recycled over virgin materials, the carbon footprint can be reduced by up to 65% for roadbase and drainage applications in projects.
Diversion from landfill	(Was 2, Ene 1)	Alex Fraser can provide advice on project waste management to minimise diversion to landfill. Waste (such as concrete) or spoil (such as excavation rock or in-situ pavement materials) can be recycled by Alex Fraser. Alex Fraser can cart your project waste away, recycle it into quality construction material and deliver it to your project; offering a unique two-way cartage saving.
Knowledge sharing	(Man 6, Hea 1)	The positive and multifaceted environmental benefits of choosing recycling construction materials for sustainable development is not broadly understood. Green Roads by Alex Fraser can help you identify and share the environmental benefits of your projects with your local and wider communities. Drawing from our strong track record, we can help you bring knowledge into the project and engage with the community about the savings you'll achieve, such as reduced truck movements (traffic), landfill and carbon emissions.

See Appendix A for a detailed introduction to Alex Fraser's Infrastructure Sustainability Scheme alignment claims.

Product innovation

One notable area of innovation has been the development of recycled glass sand.

While most glass containers can be recycled into new ones, small, broken fragments (under 20mm) of glass cannot be recycled conventionally. Thousands of tonnes of waste glass fines are either stockpiled or sent to landfill each year – accounting for a third of all glass from residential recycling collections.

Through extensive research and development, Alex Fraser has developed a way to recycle this growing waste stream; resulting in a recycled glass sand for use in asphalt, pipe bedding, filter material and as an additive to pavement materials.

Innovation in practice: Mordialloc Freeway, Victoria

The Mordialloc Freeway has been dubbed 'Australia's Greenest Freeway' for its high percentage of recycled material.

Spanning nine kilometres, the newly developed arterial features more than 150,000 tonnes of recycled asphalt and more than 193,000 tonnes of recycled roadbase material.

Alex Fraser worked with McConnell Dowell Decmil Joint Venture to maximise the sustainability outcomes of the Mordialloc Freeway.

Alex Fraser's Clarinda Recycling and Dandenong Asphalt facilities were well located to increase efficiencies and reduce costs, reduce truck traffic and associated emissions.

Using Alex Fraser materials on this project:

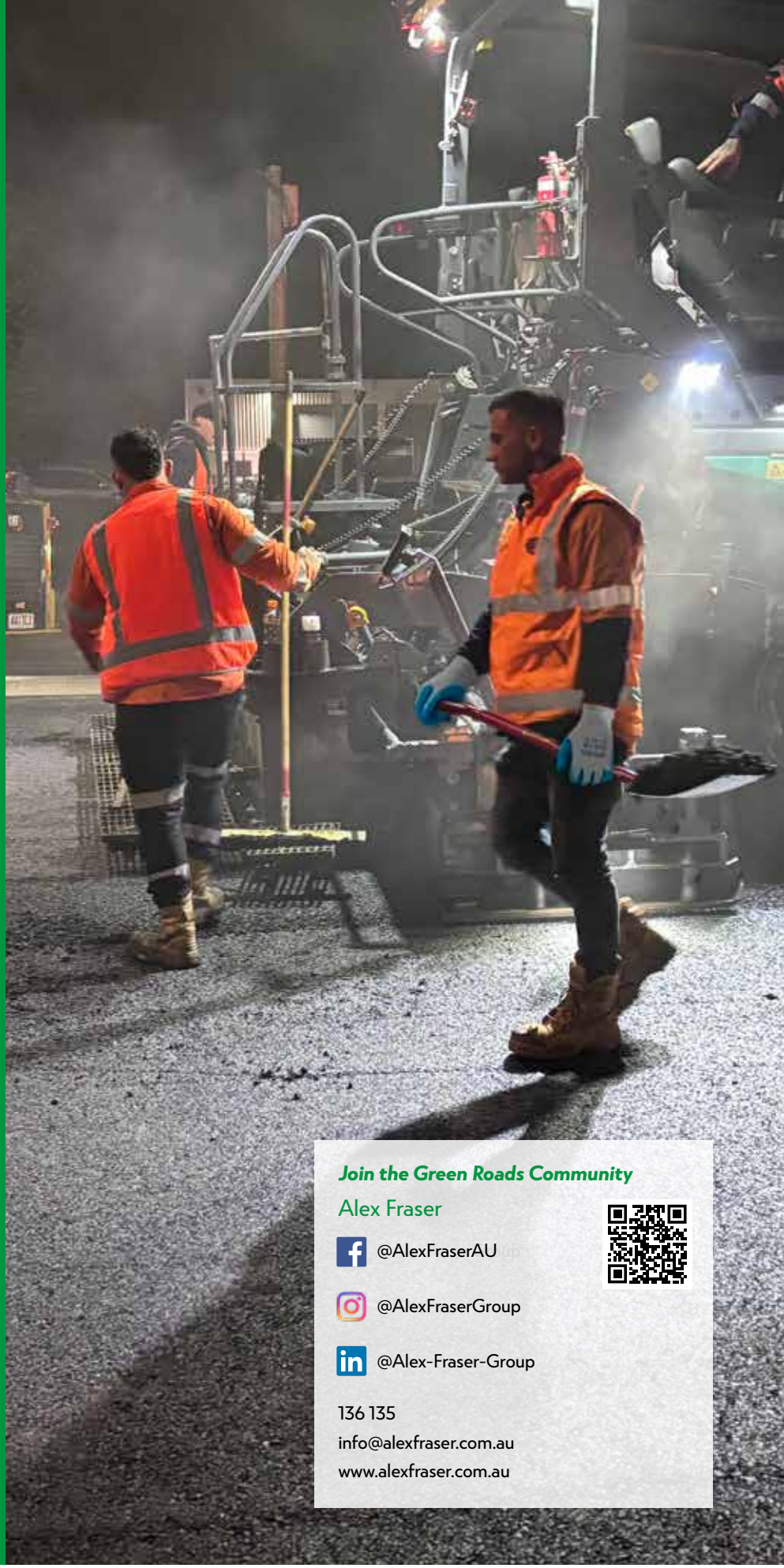
- **Reduced carbon emissions by 2,692 tonnes**
- **Recycled more than 204 million glass bottles, the equivalent of 512,511 wheelie bins**
- **Reduced truck traffic by 572 trips**
- **Diverted more than 249,739 tonnes of recyclables from landfill**

Achieving better, smarter and greener outcomes together

Alex Fraser will ensure:

- → Early supplier/contractor engagement
- → The risk and opportunity assessment identifies all sustainability opportunities in pavement materials
- → Innovation in waste management practice
- → Innovative material selection
- → Excellent design

ALEX FRASER
GROUP



Join the Green Roads Community

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