



Environmental Policy
& Management System
to AS/NZS SIO 14001:2016

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To our stakeholders,

As a manufacturer of precast concrete drainage pits, reinforced pipes and other precast products, Frankston Concrete Products, recognises the need to minimise the impact of our activities on the environment. We are committed to operating as a responsible corporate citizen and taking ownership of our environmental responsibilities.

This Environmental Policy outlines our commitment to environmental management, compliance with applicable regulations, and continual improvement.

Signed:

A handwritten signature in black ink, appearing to read 'N. Zigouras', is written over a light grey rectangular background. The signature is fluid and cursive, ending with a small exclamation mark.

Nicholas Zigouras

General Manager, Frankston Concrete Products



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Environment Policy

Objectives

We will strive to achieve the following environmental objectives:

- a. Minimise waste generation through efficient manufacturing processes, resource optimisation, and waste reduction initiatives.
- b. Conserve energy and promote the use of renewable energy sources wherever feasible.
- c. Reduce emissions and control air pollution through the adoption of cleaner technologies and the implementation of effective emission control measures.
- d. Promote responsible water usage, including water conservation and efficient water management practices.
- e. Ensure compliance with all applicable environmental laws, regulations, and other requirements.
- f. Monitor and mitigate the environmental impacts of our activities, products, and services.
- g. Promote the use of environmentally friendly materials, such as recycled and low-impact materials, in our products.
- h. Foster environmental awareness and provide appropriate training to our employees, suppliers, and contractors.
- i. Encourage communication and collaboration with stakeholders, including customers, suppliers, regulators, and the local community, to promote environmental sustainability.

Compliance

We are committed to complying with all applicable environmental laws, regulations, and other requirements. We will monitor changes in legislation and ensure that our operations and practices remain aligned with the evolving environmental standards.

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Continual Improvement

We will continually improve our environmental performance through establishing measures.

- i. Setting and reviewing environmental objectives and targets to drive ongoing improvement.
- ii. Regularly monitoring, measuring, and reporting on our environmental performance.
- iii. Conducting periodic reviews of our environmental management system to identify areas for improvement.
- iv. Encouraging innovation and the adoption of best practices in environmental management.
- v. Providing resources and support to implement and maintain effective environmental management practices.
- vi. Encouraging employee participation and involvement in environmental initiatives.

Communication and Documentation

This Environmental Policy will be communicated to all employees, suppliers, contractors, and other stakeholders. It will be made available to the public through our website and other appropriate channels. We will maintain relevant documentation to demonstrate our commitment to environmental management and compliance.

Review and Revision

This Environmental Policy will be reviewed annually to ensure its ongoing suitability, adequacy, and effectiveness. Any necessary revisions will be made to reflect changes in our operations, environmental objectives, or regulatory requirements.

Managing and monitoring environmental risks in a precast concrete manufacturing environment involves implementing effective processes and measures to identify, assess, control, and mitigate potential environmental hazards. At Frankston Concrete Products we employ the following measures:

1. Environmental Risk Assessment:

Conduct a comprehensive assessment to identify and evaluate potential environmental risks associated with precast concrete manufacturing. This assessment considers factors such as air emissions, water usage, waste generation, and energy consumption.

2. Regulatory Compliance:

Understanding and complying with relevant environmental regulations, permits, and standards. Stay up to date with local, national, and international environmental requirements to ensure your operations are within legal boundaries.

3. Pollution Prevention:

Implement pollution prevention measures to minimize the generation of waste and emissions. This may involve optimizing production processes, using eco-friendly materials, and adopting sustainable practices to reduce environmental impacts.

4. Waste Management:

Develop a waste management plan that includes proper handling, storage, and disposal of waste materials. Implement recycling and reuse programs wherever feasible. Ensure compliance with waste management regulations.

5. Energy Efficiency:

Identify opportunities to improve energy efficiency within our manufacturing processes: energy-efficient equipment, optimising production schedules, and exploring renewable energy sources.

6. Water Conservation:

Implement water conservation measures: installing water-efficient equipment and monitoring water usage, capturing and reusing water whenever possible.

7. Emissions Control:



Monitor and control emissions from our manufacturing processes: installing and maintaining pollution control equipment such as dust collectors, filters, and scrubbers.

8. Employee Training and Awareness:

Provide comprehensive training to employees on environmental risks, safety protocols, and best practices. Foster a culture of environmental awareness and responsibility throughout the organisation.

9. Monitoring and Reporting:

Regularly monitor and measure key environmental parameters, such as air quality and energy consumption. Keep records of environmental performance and report relevant data to regulatory agencies as required.

10. Continuous Improvement:

Regularly review and update our environmental management systems to incorporate new technologies, industry best practices, and lessons learned. Seek opportunities for innovation and collaborate with stakeholders to enhance environmental performance.

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Environmental Risk Assessment

Risk Category	Potential Risks	Consequences	Likelihood	Severity	Risk Level
Air Pollution	Emissions from concrete production	- Respiratory issues for workers	Moderate	High	High
	Dust generation during material handling	- Health risks for workers. Impact on local environment	High	Medium	High
Water Pollution	Discharge of wastewater from cleaning operations	-Contamination of local water bodies. Harm to aquatic life.	Moderate	High	High
	Spills of chemicals and concrete additives	- Contamination of groundwater sources.	Low	High	Medium
Noise Pollution	Operation of heavy machinery and equipment	- Hearing damage for workers.	High	Medium	High

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Risk Category	Potential Risks	Consequences	Likelihood	Severity	Risk Level
Occupational Health	Handling of heavy materials and equipment	- Musculoskeletal injuries. Accidents and falls	Moderate	High	High
	Exposure to hazardous chemicals and substances	- Health risks for workers. Accidents and spills	Moderate	High	High
Waste Management	Generation of concrete waste and packaging materials	- Increased landfill usage. Potential pollution risks	Moderate	Medium	Medium
Natural Resources	Extraction and consumption of raw materials	- Depletion of natural resources. Impact on ecosystems	Low	High	Medium

Regulatory Compliance

In the State of Victoria, Australia, and at the Commonwealth level, there are several environmental regulatory controls in place. Frankston Concrete aims to stay up to date with local, national, and international environmental requirements to ensure our operations are within our legal boundaries.

The following are relevant to Frankston Concrete's operations:

State of Victoria (Victoria Environment Protection Authority - EPA Victoria):

1. Environment Protection Act 1970: This legislation provides the legal framework for environmental protection in Victoria. It sets out the responsibilities of businesses to prevent and minimise pollution, manage waste, and protect the environment.
2. Environment Protection Regulations: These regulations specify detailed requirements and standards for various environmental aspects, including air quality, water quality, waste management, contaminated land, noise pollution, and hazardous substances.
3. Works Approvals and Licenses: Activities, such as trade waste installations, that have the potential to cause environmental harm may require works approvals or licenses from EPA Victoria. These approvals and licenses outline specific conditions and environmental performance requirements that must be met.

Commonwealth of Australia (Department of Agriculture, Water, and the Environment):

1. National Environment Protection Measures (NEPMs): NEPMs are guidelines and standards developed collaboratively by the Commonwealth and state/territory governments to address specific environmental issues, including air quality, water quality, noise, and hazardous waste.
2. Pollution Prevention and Management: Various regulations and guidelines are in place to manage pollution, waste management, and hazardous substances, such as the National Pollutant Inventory (NPI) and the Hazardous Waste Act.
3. Compliance and Enforcement: The Department of Agriculture, Water, and the Environment monitors compliance with environmental regulations at the Commonwealth level. Penalties and enforcement actions can be taken against non-compliant businesses.

Pollution Prevention Plan

Implement pollution prevention measures to minimise the generation of waste and emissions.

- | | |
|---------------------------------|--|
| Air Pollution Prevention: | <ul style="list-style-type: none">• Install effective dust collection and filtration systems to minimise airborne dust emissions during material handling and concrete production processes.• Implement regular equipment maintenance to ensure proper functioning and reduce emissions.• Optimise the curing process to minimise volatile organic compound (VOC) emissions. |
| Water Pollution Prevention: | <ul style="list-style-type: none">• Implement a closed-loop water system to minimise water usage and reduce the discharge of wastewater.• Install sedimentation tanks or settling ponds to allow suspended solids to settle before discharge.• Implement and monitor proper spill prevention and response procedures to prevent chemical and concrete additive spills from reaching water sources. |
| Noise Pollution Prevention: | <ol style="list-style-type: none">1. Enclose noisy equipment or machinery to minimise noise emissions.2. Install sound barriers or use sound-absorbing materials in areas where noise levels are high. <ul style="list-style-type: none">• Conduct regular maintenance and lubrication of equipment to reduce noise from friction. |
| Occupational Health and Safety: | <ul style="list-style-type: none">• Provide appropriate personal protective equipment (PPE) to workers to minimise exposure to hazards, such as dust, chemicals, and noise.• Conduct regular training programs to educate employees about safety measures and proper handling of materials.• Implement ergonomic workstations and equipment to reduce the risk of musculoskeletal injuries. |
| Waste Management: | <ul style="list-style-type: none">• Implementation of a waste management plan to segregate and recycle concrete waste and packaging materials.• Promote the use of recycled aggregates and materials in the manufacturing process.• Minimise waste generation through efficient production planning and inventory management. |
| Energy Efficiency: | <ul style="list-style-type: none">• Install energy-efficient lighting systems and equipment to reduce energy consumption. |



- Optimise the use of heating, ventilation, and air conditioning (HVAC) systems for energy conservation.
 - Explore the use of renewable energy sources, such as solar or wind power, to reduce reliance on conventional energy sources.
- Environmental Monitoring:
- Regularly monitor air quality, water quality, and noise levels to ensure compliance with regulatory standards.
 - Implement an environmental management system to track and manage environmental performance effectively.

Continuous Improvement

At FCP we review and update your environmental management systems to incorporate new technologies, industry best practices, and lessons learned. Through the modernisation of our systems and procedures we actively seek opportunities for innovation and collaboration with stakeholders to enhance our business and our environmental performance.

Waste Management Plan

FCP's waste management plan includes proper handling, storage, and disposal of waste materials and complies with waste management regulations.

Aim

To recycle, reduce and reuse materials used in the manufacture of concrete products.

Key Personnel

Manufacturing Plant & Production	Bogdon Musat, Production Manager
Site – General	Sam Malaeb, Site Foreman
Administration Offices	Nicholas Zigouras, General Manager
Waste Monitoring	Christina Zigouras, Compliance Officer

Waste Identification and Classification

Waste & Source	R-R-R	Waste Contractor	Collection
Concrete Slurry - Manufacturing process	Recycle	Alex Fraser Concrete Recyclers	Monthly 18m ³
Steel - Manufacturing process	Recycle	Complete Metal Recycling	Monthly 18m ³
Paper – Office	Recycle	JJ Richards & Sons	Weekly 1 x 1100Lt
Pallets – Packing & Freight	Reuse	Dandenong Business to Business Swap Programme	As required
General – Office, Factory & Amenities	Reduce	JJ Richards & Sons	Weekly 3x1100Lt
LPG Bottles	Reuse	Speed Gas	Refilled as required.

Minimisation and Source Reduction

Frankston Concrete products continues to promote waste minimisation practices, such as:

- optimising production processes to reduce waste generation.
- exploring opportunities for recycling and reuse waste materials within the manufacturing process.

We do this by implementing the following systems:

1. Waste Storage and Segregation:
 - Provide designated storage areas for different waste types,

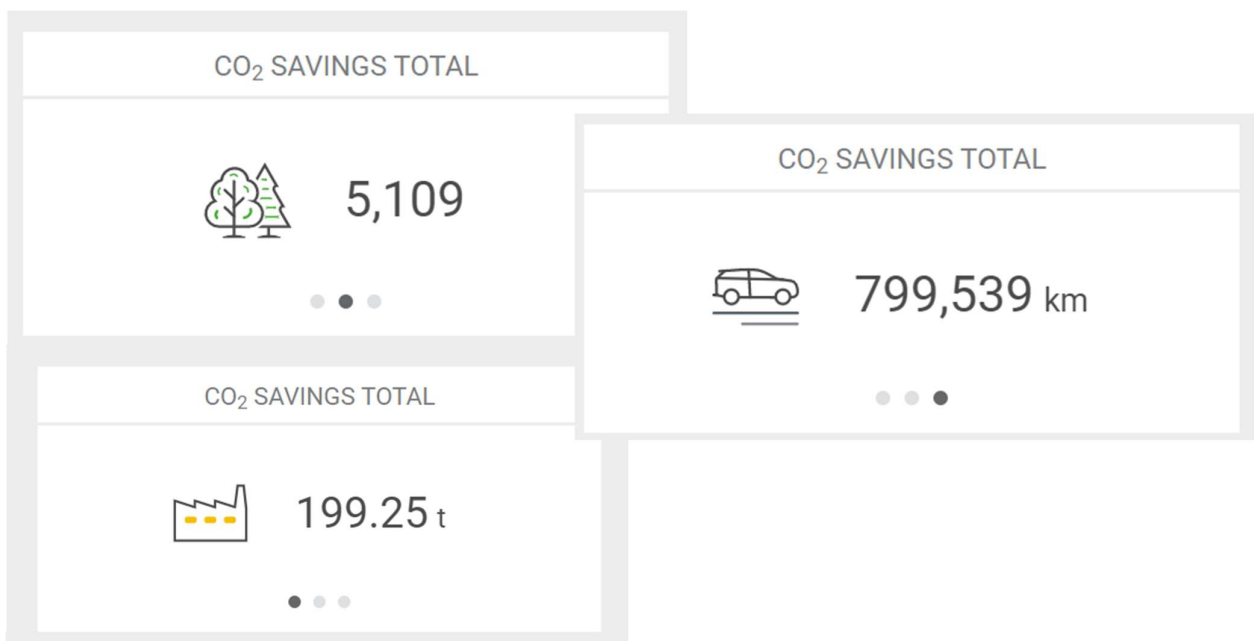
- Ensure that storage areas are secure, well-maintained, and equipped with proper containment measures to prevent spills and leaks.
2. Waste Disposal:
- Prioritise waste disposal options in the following order: waste reduction, reuse, recycling, energy recovery, and landfill disposal.
 - Engage licensed waste management facilities or service providers for the proper disposal or recycling of waste streams.
 - Ensure compliance with local waste disposal regulations and maintain proper documentation.
3. Monitoring and Review:
- Regularly monitor waste generation, segregation, and disposal practices.
 - Conduct periodic audits and inspections to assess compliance and identify areas for improvement.
 - Review and update the waste management plan as needed to incorporate new practices or regulatory changes.

Energy Efficiency

Our solar array is capable of harvesting 99kw which is sufficient to run all our operations in entirety. As at the time of writing we have saved 199.25t of CO₂ in a period of 3 years.

We are sent monthly reports from our service providers as to the performance of our solar array.

We have no gas connections. Our fleet of forklifts (14) run on LPG and our trucks are diesel.





Water Conservation

Frankston Concrete Products has moved to dry cast technology. As the name suggests, the use of water is dramatically reduced compared to the more traditional method of wet casting in the manufacturing process of precast concrete.

A 20,000 Litre Water Tank harvests water for this purpose and is located in the plant area.

As a new build (2019), the facility is also fitted with WELS star fixtures and fittings in the office and staff amenity areas.

Emissions Control

Frankston Concrete's control measures controlling emissions relate directly to the health and safety of our employees and their working environment.

Noise

- Power tools
- Air Compressors
- PPE
- Sound proof enclosures

Air

- Fitted air extractors

Employee Training and Awareness

At FCP we aim to foster a culture of environmental awareness and responsibility throughout the organisation. This is communicated through our Human Resource Management systems:

- Fortnightly Tool Talks
- Month OH&S Meetings
- Bright HR Communication Application

Regularly monitor and measure key environmental parameters, such as air quality, water quality, and energy consumption. Keep records of environmental performance and report relevant data to regulatory agencies as required.

Appendices

1. SCM Statement

"Supplementary Cementitious Materials (SCMs) are essential components in our concrete precast products, providing enhanced performance and sustainability. Our products incorporate 25% fly ash as a high-quality SCM.

Fly ash, a byproduct of coal combustion, is carefully selected and processed to meet the necessary specifications and performance requirements. This SCM contributes to the overall strength, durability, and workability of the concrete, while reducing the environmental impact of our operations.

By incorporating fly ash into our concrete precast products, we aim to achieve the following benefits:

- Improved Strength and Durability: Fly ash enhances the long-term strength and durability of the concrete, making our precast products resilient and long-lasting.
- Reduced Carbon Footprint: Fly ash is a sustainable alternative to traditional cement, significantly reducing the carbon footprint associated with concrete production. By utilizing 25% fly ash, we contribute to the reduction of greenhouse gas emissions and support a more sustainable construction industry.
- Increased Workability: The addition of fly ash improves the workability of the concrete mixture, allowing for easier casting, shaping, and finishing of our precast products.
- Enhanced Chemical Resistance: Fly ash helps to mitigate the detrimental effects of alkali-silica reaction and sulphate attack, making our concrete precast products more resistant to chemical deterioration.
- Cost-Effectiveness: Incorporating fly ash as an SCM provides economic advantages by reducing the cement content without compromising the quality and performance of our precast products.

At Frankston Concrete we are committed to producing high-quality, sustainable concrete precast products. Our utilisation of 25% fly ash as an SCM is a testament to our dedication to environmental stewardship and the pursuit of innovative construction practices.