

Purpose

The purpose of this document is to prevent and/or minimise the likelihood of environmental harm at 8 Endeavour Drive Kunda Park QLD and the surrounding environment. This document identifies sources of potential environmental harm, the potential impact and preventative measures.

This document is to be followed in conjunction with “Development Approval EPA permit no. IPDE01076508 ([ref 1](#))”.

References

1. EPA Development Approval – EPA Permit no. IPDE01076508. CAA ref no. EPPR00229813
2. Management Manual + procedures
3. MSDS Register (www.anodesonline.com.au/2020)
4. Management Manual – Organisational Roles and Responsibilities
5. Procedure – Document and Record Control
6. Staff Training – Responsibilities Table
7. Procedure – Corrective and Preventive Action
8. Management Review Meeting Minutes

Roles and Responsibilities

Staff Member	Position	Role
Sam Pohlman Lang Semmler	On-Site Monitoring and Reporting	1. To ensure EPA regulations and other regulatory requirements are being met in the factory. 2. Incident reporting to EPA and other regulatory bodies.
Brent Linde	Environmental Compliance System	To maintain the Management System to meet EPA & other regulatory requirements. Including procedure review/auditing.
Brent Linde	Material Safety Data Sheets	Ensure MSDS remain current.

Procedure

Plant and Equipment: CAA’s primary business is to cast anodes using high purity Aluminium and Zinc ingot, with the addition of some elements. Anodes are cast into permanent moulds of various shapes and sizes for the marine industry and for industrial applications. CAA also cast SHG zinc balls and slugs for the electroplating industry.

CAA is a non-ferrous metal foundry. We use various furnace types including gas fired and electric resistance and induction technology. Energy efficiency, water and waste management play a key role in our factory. The layout is designed based on principals of LEAN manufacturing, where the flow of work and minimal downtime is integral to the operation of the factory.

CAA conditions of approval are according to Environmental Protection Regulation 2019, Activity class 29 (1) (b) Metal Foundry Operation (page 162) – Producing 50t or more of non-ferrous metal casting in a year.

For CAA Environment Policy see [ref 2](#) and for CAA MSDS see [ref 3](#). Refer to the CAA Management Manual for Organisational Roles and Responsibilities ([ref 4](#)) and for CAA Document and Record Control, see [ref 5](#).

Corrective and Preventive Action ([ref 7](#)): A key part of our ISO9001 Management System is the Corrective Action Report (CAR) process, which aims to ensure that we continually improve. This system encompasses potential areas for improvement within the business, including any environmental incidents.

Spill Kit (G6): The spill kit is located in close proximity to the Chemical Bunding which contains potentially hazardous chemicals. The MSDS for all relevant chemicals are located on www.rustseeker.com.au/2020/msds/

Environmental Risks & Management Plan

Potential Cause of Release	Potential Environmental Impact	Preventative Measures
Contaminants enter stormwater (Refer to W1, W2 and W3 of ref 1)	Contaminants enter nearby creeks, adversely effecting: <ol style="list-style-type: none"> 1. Local flora and fauna 2. Staff 3. Local community 	Measures to prevent land contamination include: <ol style="list-style-type: none"> 1. Chemicals that can cause environmental harm are reviewed at least annually. Packaging and used-by date are reviewed. Those that are not essential are removed from site. 2. Factory areas kept clean and orderly to prevent mishaps that may increase environmental risks. 3. Plant and Equipment maintenance regularly carried out (refer to Maintenance procedures) to reduce potential environmental damage. 4. Potentially damaging chemicals located under cover and on bunding. Potential reactions between chemicals on bunding are also assessed for potential risk. 5. Ash stored in sealed drums, undercover until collected by the recycler. 6. Spill kit and safety wear located close to bunding in the event of a spill. 7. Drains contain spill collection trap. 8. Chemicals are stored inside, away from the drains. 9. MSDS on CAA2020 for all products used in manufacturing process for safe use, storage, handling and disposal.
Airborne Contaminants, including noxious or offensive fumes. (Refer to A1, A2 and A6 of ref 1)	Airborne fumes may be released as part of the manufacturing processes. Fumes entering the atmosphere may be toxic, adversely effecting: <ol style="list-style-type: none"> 1. Local flora and fauna 2. Staff 3. Local community 	Measures to prevent airborne contamination include: <ol style="list-style-type: none"> 1. Chemicals that can cause environmental harm are reviewed at least annually. Packaging and used-by date are reviewed. Those that are not essential are removed from site. 2. Potentially damaging chemicals located under cover and on bunding. Potential reactions between chemicals on bunding are also assessed for potential risk. 3. Factory areas kept clean and orderly to prevent mishaps that may increase environmental risks. 4. Plant and Equipment maintenance regularly carried out (refer to Maintenance procedures) to reduce potential environmental damage. 5. MSDS on CAA2020 for all products used in manufacturing process for safe use, storage, handling and disposal. 6. Chemical respirators and paper dust masks are readily available for all staff and visitors if required.
Heat Management	High heat concentrations from furnaces is released into the atmosphere, adversely effecting: <ol style="list-style-type: none"> 1. Local flora and fauna 2. Staff 3. Local community 	<ol style="list-style-type: none"> 1. The CAA factory has a high roof and good ventilation systems, this allows heat generated at ground level to rise and disperse quickly to reduce high heat concentrations. 2. Industrial fans at ground level aid in dispersing heat quickly. 3. Factory is kept in clean and orderly state, this significantly reduces the possibility of fire danger from furnaces. 4. Furnace temperatures are regularly monitored using pyrometers, which are periodically assessed for accuracy. 5. Fire Extinguishers are periodically assessed by Sunshine Coast Fire Protection for compliance.

Procedure: Environmental Site Based Management Plan



Potential Cause of Release	Potential Environmental Impact	Preventative Measures
Management of Noise	Sound emanating from foundry may cause nuisance to: 1. Local fauna 2. Staff 3. Local community	1. There are numerous pieces of equipment at CAA which can cause hearing damage. Ear plugs and ear muffs are readily available for all staff and visitors. 2. Equipment is well maintained to ensure maximum working efficiency, this reduces potential noise issues. 3. Readings from outside of the factory gate are in the range 51-56db.

In the event of an Environmental Incident

1. Immediately take steps to minimise the spread of the contaminant(s), using the relevant MSDS and spill containment kit. Ensure that all safety precautions are followed.
2. Immediately notify CAA responsible persons ([Sam Pohlman](#) & [Lang Semmler](#)) of the incident.
3. If required, inform the EPA and any other relevant authorities as soon as incident has occurred, according to G6 of [ref 1. EPA Pollution Hotline 1300 130 372.](#)
4. Incident report to be completed within 3 hours of incident occurring by CAA responsible persons, using the CAR System ([ref 7](#)). If required, submit report to EPA and any other relevant authorities. Report to be retained for a minimum of 7 years.
5. A written notice detailing the following information must be provided to the EPA within 14 days of telephone notification.

Company Name: CAA	Suspected cause of release
EPA Permit No: IPDE01076508	Effects of the release
Designated Person: Lang Semmler 0458 626 002	Results of any sampling performed in relation to release
Quantity and Substance released	Actions taken to mitigate environmental harm
Persons Involved	Proposed actions to prevent recurrence
Location and time of release	

6. The incident shall be documented in the CAR system.

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