



28 FEBRUARY 2022

# COMMUNITY REFERENCE GROUP MEETING



ORICA KOORAGANG ISLAND

# AGENDA

# Agenda

- Welcome, introduction, apologies and acceptance of meeting notes
- Orica KI community survey findings
- Environmental projects update
- Site status
- Overview of safety, health and environmental performance in the last quarter
- Community update
- Other business
- Action review and meeting close

# WELCOME AND INTRODUCTIONS

# Welcome and introductions

## Orica

- Paul Hastie
- Nicole Masson
- Nathan Robinson
- Paul Cunsolo

## University of Newcastle

- Sallyann Hunting
- Luc Van Vliet

## Apologies

- Lyn Kilby
- Keith Craig

# ACCEPTANCE OF MEETING NOTES

# Acceptance of meeting notes

Meeting notes for the 29 November 2021 meeting were sent by email on 24 January 2022.



DRAFT FOR CRG REVIEW

ORICA

KOORAGANG ISLAND COMMUNITY REFERENCE GROUP  
MEETING – 29 NOVEMBER 2021

**Present**

Paul Hastie (Orica)	Brigid Kelly (Port of Newcastle)
Antony Taylor (Orica)	Jennifer Anderson (Port of Newcastle)
Nicole Masson (Orica)	Andrew Brajilili (Port of Newcastle)
Nathan Robinson (Orica)	Rick Banyard (Correct Planning and Consultation for Mayfield)
Paul Cunsolo (Orica)	
Sherree Woodroffe (Orica)	Drew Janetzki (Fern Bay Public School)
Troy Powell (Orica)	John Thacker (New West)
	John Hayes (Correct Planning and Consultation for Mayfield)
	Keith Craig (Stockton Community Action Group)
	Sophia Hamblin Wang (MCI)
	Mark Rayson (MCI)
	Trent Borserio (MCI)

**Apologies**

Terry McCauley (Islington Village Community Group)

Lyn Kilby (GLOW)

**Meeting Notes to attendees, apologies plus:**

Michael Punch (St Peters Primary School)

Jennifer Miller (Stockton PS)

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General

# COMMUNITY SURVEY

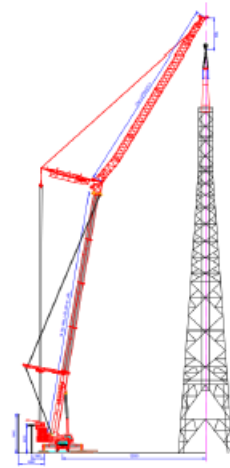
**SALLYANN HUNTING AND LUC VAN VLIET**  
**UNIVERSITY OF NEWCASTLE**



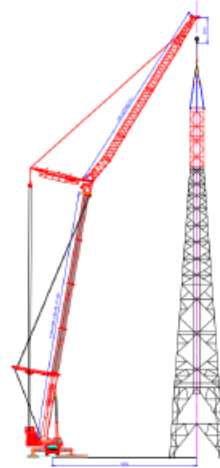
# ENVIRONMENTAL PROJECTS UPDATE

**NATHAN ROBINSON**

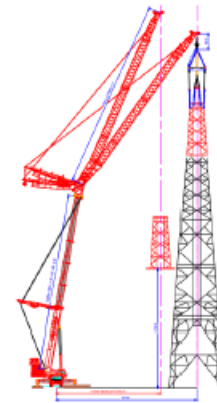
# NAP1 stack removal



Lift 1



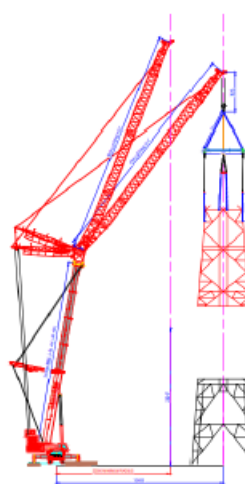
Lift 2



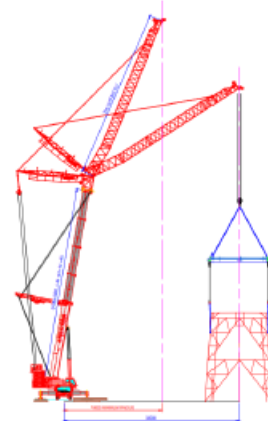
Lift 3



Lift 4



Lift 5



Lift 6

# NAP1 stack removal

## Flue removal – Lift 1



# NOx reduction – ammonia reformer

**Impact** – Reduction in NOx emissions from the reformer

## Status

- Supplementary trials completed and trial summary submitted to EPA
- 10-13% reduction in NOx @ 15kg/hr dosing
- Proposing to implement the system permanently



# Tertiary abatement – NAPs

**BENEFIT** – Reduction in emissions of greenhouse gases ( $\text{N}_2\text{O}$  aka. nitrous oxide or laughing gas) and  $\text{NO}_x$  (other nitrogen oxides which can be associated with acid rain/smog)

## TERTIARY ABATEMENT TECHNOLOGY PROCESS

Proudly funded by



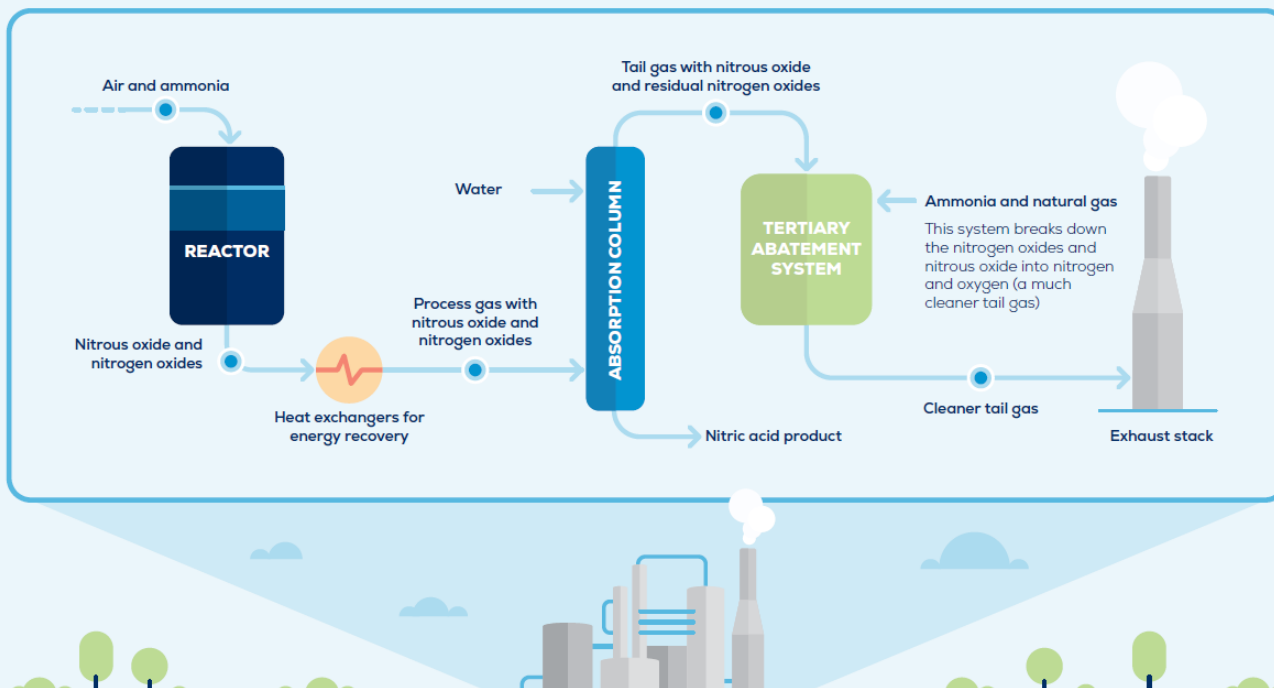
Technology installed at  
**3 nitric acid**  
manufacturing plants  
from 2022



Is forecast to reduce Kooragang  
Island nitrous oxide emissions by  
**567,000 tonnes**  
 $\text{CO}_2\text{e}$  per year



**48 per cent**  
decrease in Kooragang Island's  
total scope 1 and 2 emissions footprint



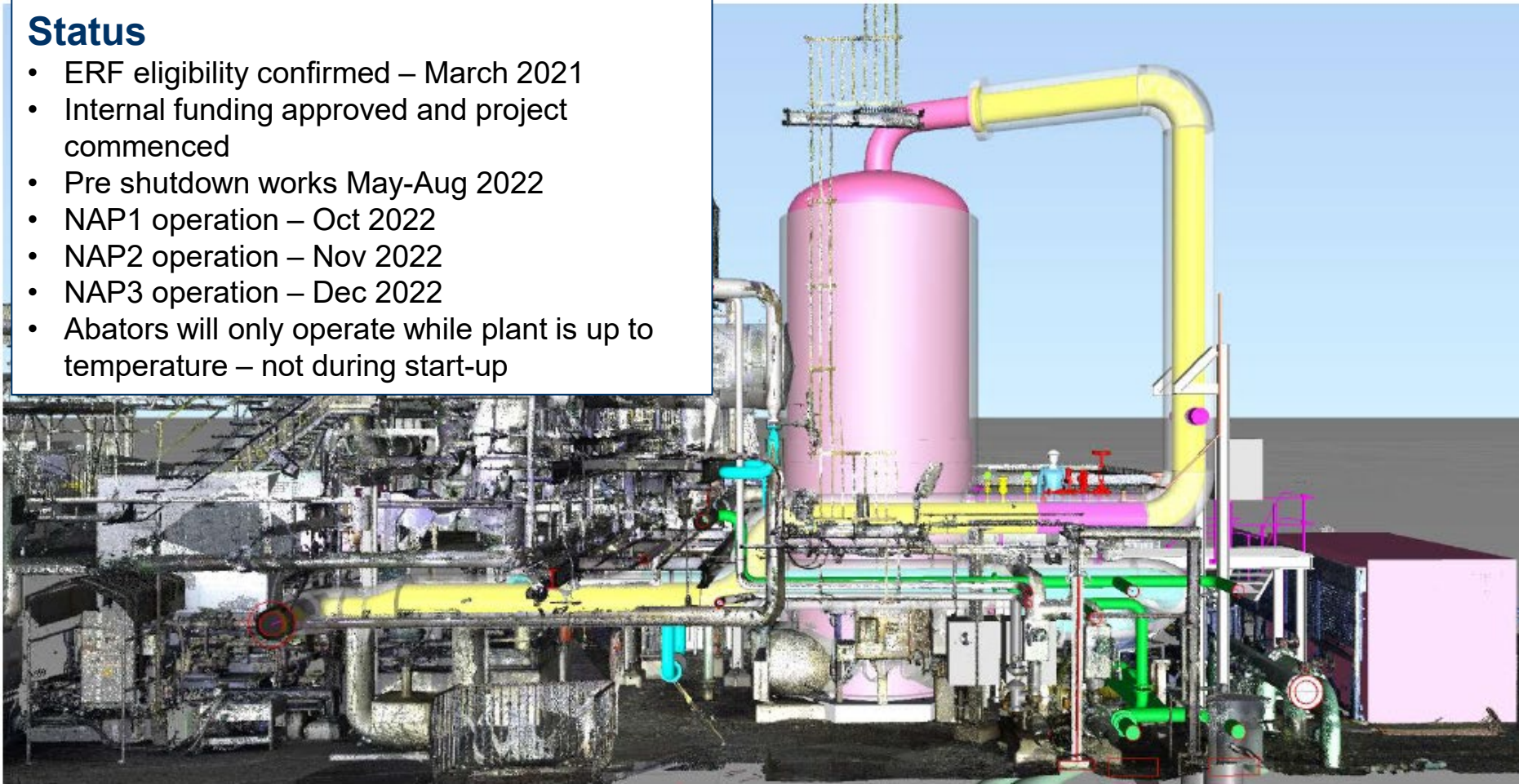


# Tertiary abatement - NAPs

**BENEFIT** – Reduction in emissions of  $\text{N}_2\text{O}$  and  $\text{NO}_x$  to air

## Status

- ERF eligibility confirmed – March 2021
- Internal funding approved and project commenced
- Pre shutdown works May-Aug 2022
- NAP1 operation – Oct 2022
- NAP2 operation – Nov 2022
- NAP3 operation – Dec 2022
- Abators will only operate while plant is up to temperature – not during start-up



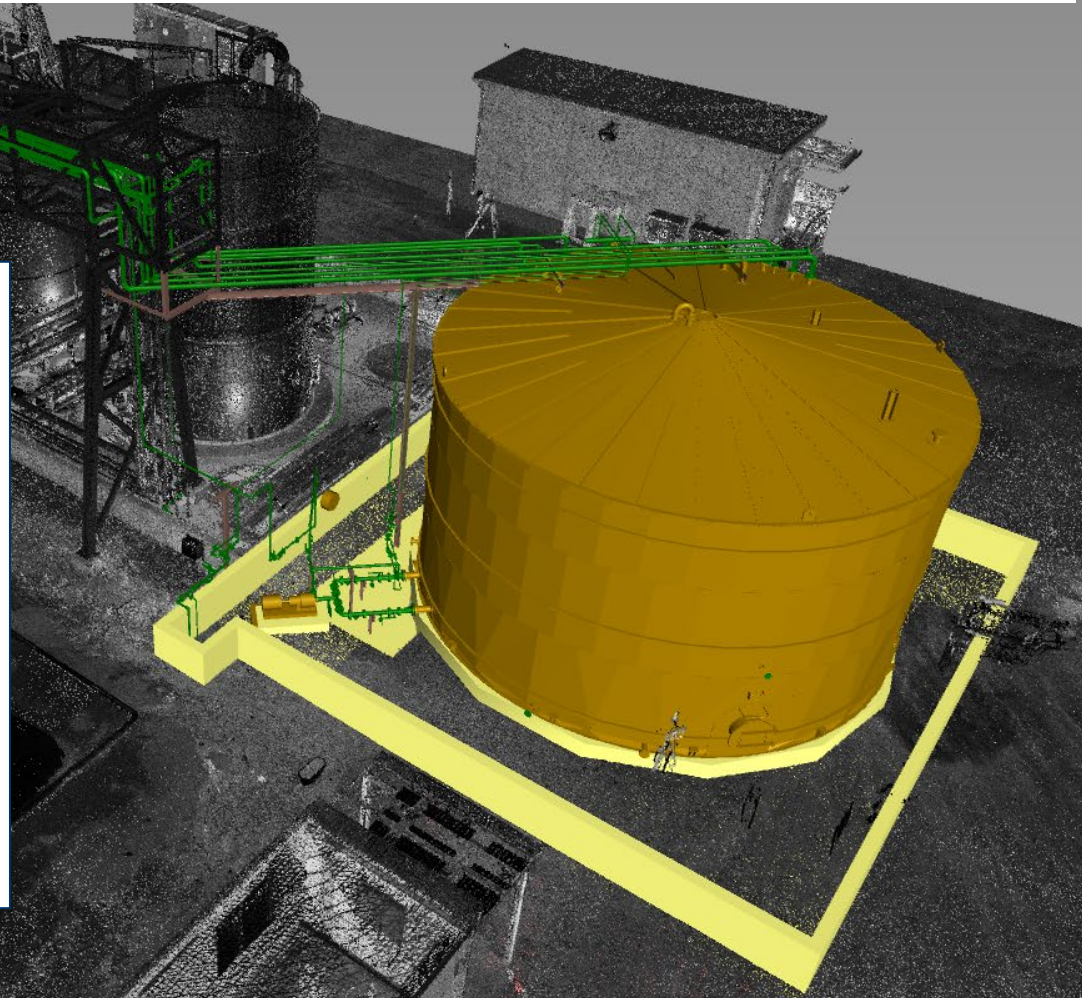
VIEW LOOKING WEST

# Nitrates effluent pond replacement

**BENEFIT** – Environmental risk reduction/loss of containment

## Status

- Development approval obtained
- No change to manufacturing process
- Project involves replacement of an inground effluent pond with a fully bunded tank
- Funding approved and project planning commenced
- Civils expected to start late March 2022 with completion by October/November 2022



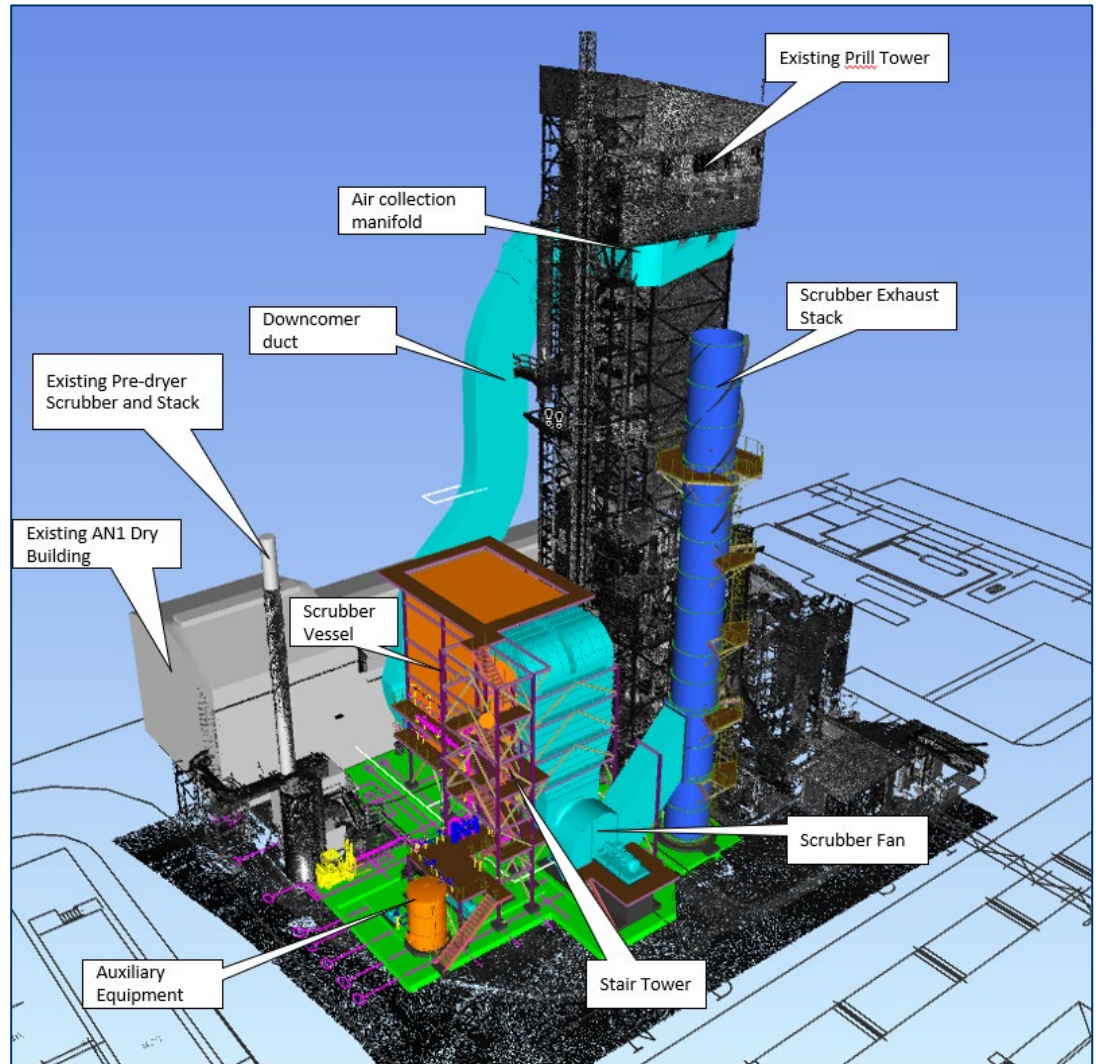


# Prill tower scrubber

**Benefits** – improved air quality and lower nitrogen loads on the Hunter River

## Status

- Modification application approved
- Full sanction funding approved
- Design phase progressing
- Tendering commenced
- Construction scheduled to commence late 2022
- Scheduled for completion late CY2023





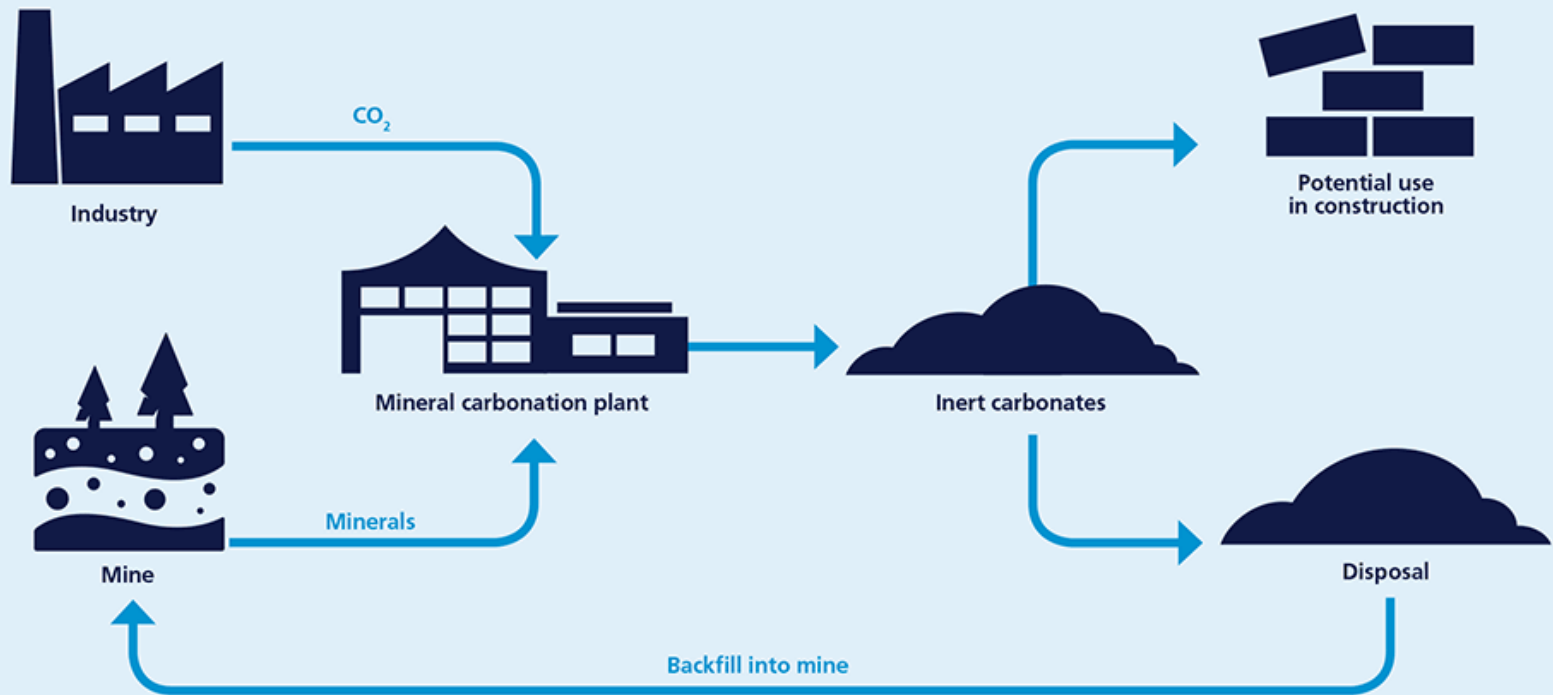
# MCI – Proposed demonstration plant

## Status

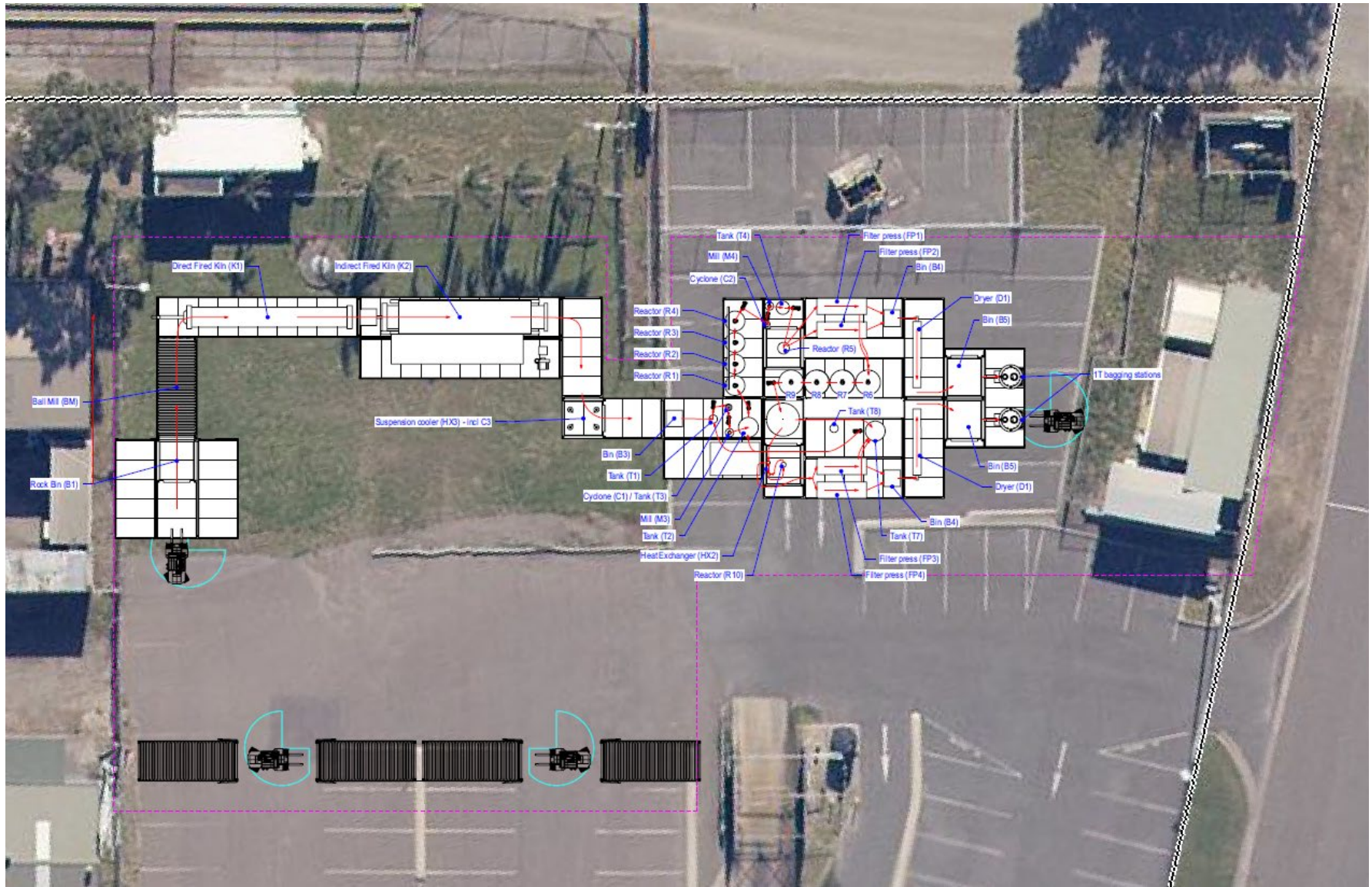
- In 2016 Mineral Carbonation International (MCI) switched on the world's first carbon reactor at the University of Newcastle in Australia.
- The pilot plant reacts industrial CO<sub>2</sub> emissions with alkaline mine waste to produce a range of carbonate products for the construction sector eg. cement, aggregate, plaster board and pavers
- MoU signed to construct research plant in the northern end of Orica carpark and take CO<sub>2</sub> from Orica's ammonia plant
- MoU follows nine years of R&D investment undertaken by the joint venture partners Orica, GreenMag Group and the University of Newcastle, in a research initiative worth AUD\$10m, funded by Orica, Commonwealth and New South Wales Governments and supplemented by the R&D rebate scheme

# MCI – Proposed demonstration plant

Transforming CO<sub>2</sub> into products for building



# MCI – Proposed demonstration plant



# **SITE STATUS**

**PAUL HASTIE**

# OVERVIEW OF SHE PERFORMANCE

**PAUL CUNSOLO**

# December 2021 to February 2022

## **Injuries**

- Operator jarred their back while opening a door on a sea container.
- Apprentice technician suffered a superficial burn to his index finger using a wire wheel on a pedestal drill.
- Contractor received a slight tingle (electrical) while removing an extraction fan.

## **Environmental non-compliance**

Nil

## **Community complaints**

- One complaint regarding 'fertiliser' odour.
- One complaint reporting the deposition of a white substance.
- One complaint reporting a visible NOx emission following NAP1 shutdown.

# COMMUNITY UPDATE

**NICOLE MASSON**

# Community newsletter

Issue 1 2022 delivered 26/27  
February 2022.



KOORAGANG ISLAND  
ISSUE 1, 2022

## COMMUNITY NEWS

### NEW STACK FOR NAP1

Construction, cutover activities, and commissioning of the new stack for the No1 nitric acid plant (NAP 1) have been completed and it is now fully operational. At the time this newsletter went to print, the old stack was scheduled to be removed in the last week of February.

**\$11M**

build

**500m**

electrical cable

**450m**

pipng

**750m**

pipng weld

**14,605**

hours worked

**124**

extra workers

**199**

safety leadership interactions

**90**

tonnes of steel

**2400**

bolts

**340**

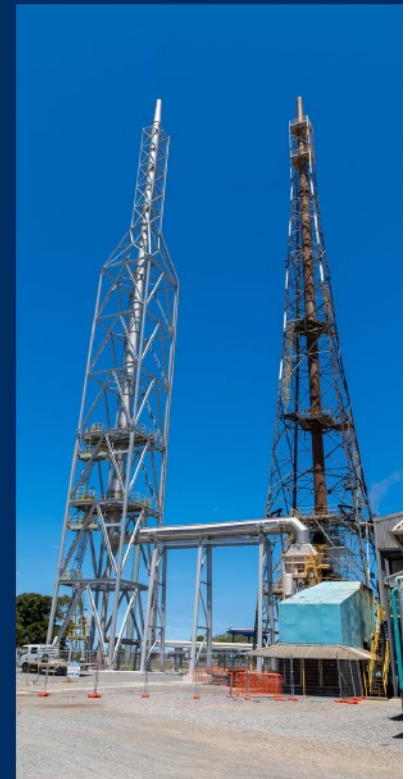
cubic metres of concrete

**86m**

high

**17m**

underground



Pictured: The new stack on the left and the old stack on the right.



# Community Investment Program

## Hunter Multicultural Communities

The organisation put a \$10,000 grant towards upgrading it's garden, including a new pergola, BBQ and seating.



## Bikers for Kids

The organisation put a \$5,000 grant towards the 2021 Toy Run. The event received around \$70,000 in gifts for local kids and raised \$20,000 for the Salvos.



# Community Investment Program

## John Hunter Children's Hospital

With a \$5,900 grant, the children's hospital purchased a new Portable Endogenous Exhaled Nitric Oxide System. This device is required as part of the team's standard of care for performing respiratory function testing.



## Matthew Talbot Centre

In December, we donated 10 food hampers and \$2,000 in essentials vouchers to the Matthew Talbot Centre.





# Community Investment Program



## COMMUNITY INVESTMENT PROGRAM

Kooragang Island

### APPLICATIONS NOW OPEN

The first round of funding for Orica's 2022 Community Investment Program is now open, with grants of up to \$10,000 available to eligible local community groups.

The Orica Community Investment Program supports initiatives that promote education and lifelong learning, improve and protect the environment, and build strong communities.

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Application forms and supporting documents are available at [orica.com/kooragang](https://orica.com/kooragang)

Applications for this round of funding will close on **31 March** with successful recipients notified in April.

# OTHER BUSINESS

**ALL**

# **ACTION REVIEW**

**NICOLE MASSON**

# Actions

No outstanding actions.