

Community SHEC Report

**Kooragang Island
August 2016**

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1 Introduction

This report focuses on activities and events during the month of July 2016 with the exception of community engagement activity which is reported for mid-July to mid-August 2016.

2 Safety and Environmental Reporting

Orica Kooragang Island records safety and environmental incidents and opportunities for improvement in the Enablon reporting system. For each incident, a manager is nominated who ensures that the incident is investigated where required, and actions generated to minimise the potential for recurrence. Actions associated with the incident are captured in a database with responsibilities and scheduled due dates to ensure completion.

Category	July 2016	Summary
Injuries	0	There were no injuries requiring medical treatment during the month.
Environmental Non Compliances	0	There were no environmental non-compliances during the month.
Complaints – received by Orica	1	One community complaint was received from a Stockton resident relating to odour. At the time of the complaint the wind was blowing from the north-east and Orica would not have been the source of the odour.
Complaints – received by EPA*	1	EPA received a complaint from the community regarding smoke from stacks at the site. There were no abnormal activities at the site during the period and the smoke was likely to be water vapour from the cooling towers.

* Note: Complaints received by EPA and Orica contacted to investigate.

2.1 July 2016 Environmental Performance

The following section provides information on Orica's compliance during July 2016 with the site's Environment Protection Licence conditions.

2.1.1 Water Emissions

Effluent is process water captured across the site and discharged to the Hunter River North Arm via a licensed discharge point. Daily composite sampling is undertaken for arsenic, chromium VI, zinc, nitrogen and total suspended solids. pH, temperature and flow are monitored continuously and oil and grease twice weekly.

Effluent (Monitoring Point 23)	Licence 100% limit	July 2016			
		Minimum	Maximum	Average	Compliance
Arsenic	0.05mg/L	0.01	0.03	0.02	✓
Chromium VI	0.2mg/L	<0.01	0.01	0.02	✓

Effluent (Monitoring Point 23)	Licence 100% limit	July 2016			
		Minimum	Maximum	Average	Compliance
Nitrogen (Total)	2000mg/L	29	199	130	✓
Oil and Grease	10mg/L	0.1	0.2	0.2	✓
pH	6.2 to 9.5	7.2	8.7	7.7	✓
Temperature	Max 43°C	28.5	41.2	35.4	✓
Total Suspended Solids	50mg/L	5	39	9	✓
Zinc	5mg/L	0.1	0.2	0.1	✓
Effluent Volume	4500kL/day	1663	2162	2911	✓

2.1.2 Stormwater

Orica is required to collect a monthly sample, during a rain event of sufficient quantity that it results in a discharge from the site stormwater drains. The results for the month are shown in the table below.

July 2016						
Stormwater drain	Arsenic mg/L	Chromium VI mg/L	Total Nitrogen mg/L	pH	Phosphate mg/L	Total Suspended Solids mg/L
1	<0.01	<0.01	19	7.6	7.9	192
2	<0.01	<0.01	31	7.4	8.6	188
3	0.02	<0.01	15	7.4	8.7	160
4	<0.01	<0.01	131	7.1	0.8	58
5	<0.01	<0.01	75	6.9	1.2	35
6	No discharge recorded at Catchment 6					

2.1.3 Air Emissions

Orica is required to continuously monitor NOx emissions from the nitric acid plant stacks. During the month the site complied with the licence requirements in relation to NOx emissions.

July 2016				
NOx limits	Licence 99% limit	Hours above limit	Cumulative no. hours above limit (YTD)	No. hours per year allowed above the licence limit
No. 1 Nitric Acid Plant	400ppm	1	12	87.6
No. 2 Nitric Acid Plant	250ppm	2	7	87.6
No. 3 Nitric Acid Plant	200ppm	3	18	87.6

Note: The Environment Protection Licence year runs from 1/04/16 – 31/03/17

2.1.4 Air Quality

Following variation of the site Environment Protection Licence in May 2015 Orica ceased monitoring of NOx at Roxburgh St, Stockton and Total Suspended Particulates at Fullerton St, Stockton on 31 May 2015. Information on Stockton air quality is available in near-real time from <http://www.environment.nsw.gov.au/aqms/newcastlelocalmap.htm>.

3 Environmental Improvements

3.1 Arsenic Remediation Management Order

Orica is currently progressing the preparation of an environmental assessment to support a development consent for the installation of the cap and containment system.

3.2 Nutrient Management Order

Following completion of preliminary investigations into nutrient levels in sediment and surface water, which concluded that nutrient in groundwater beneath the site posed a low risk to the aquatic ecosystem, additional monitoring in the Hunter River is to be undertaken to confirm the finding. The monitoring will include analysis of surface water, sediment and benthic fauna and will be conducted during 2016 and 2017.

3.3 Stormwater Quality Improvement Program

Orica is progressing works on site to reduce suspended solids in stormwater, including the installation of new kerbing along a number of roadways.

4 Community Engagement Activity – Reported for mid-July to mid-August 2016

4.1 Community Investment Program Recipients' Breakfast

On Friday 29 July we held a special breakfast to congratulate recent recipients of grants through the Orica Kooragang Island Community Investment Program. The event, held at

Merewether Surfhouse, provided attendees with an opportunity to share information about their projects.



4.2 Chuck Duck Breakfast Waratah West Public School

On 5 August we attended a sponsors' breakfast with the Chuck Duck charity at Waratah West Public School.



4.3 Joint Emergency Exercise

On Tuesday 9 August Orica Kooragang Island held its annual joint emergency response exercise with the local emergency services, including Fire and Rescue NSW and NSW Police. The main focus of this year's exercise was to practice site evacuation procedures. More than 150 people were involved in the drill, which lasted around two hours.

