



## Orica Kooragang Island Monitoring Points 10 - 15

### Details of Licence Conditions

EPA Licence No: 828  
 Link to full license on EPA website: <http://www.epa.nsw.gov.au/prpoeapp/Detail.aspx?instid=828&id=828&option=licence&searchrange=licence&range=POEO licence&prp-no&status=issued>

Licensee Name: ORICA AUSTRALIA PTY LTD  
 Licensee Address: 15 Greenleaf Rd, KOORAGANG NSW 2304  
 Location of Monitoring Points: [http://www.orica.com/images/UserUploadedImages/495/2013\\_Orica-KI\\_monitoring\\_locations.jpg](http://www.orica.com/images/UserUploadedImages/495/2013_Orica-KI_monitoring_locations.jpg)  
 Concentration Limit: See licence M2.3

### Monthly Summary: March 2016

Monitoring Point	Location of Monitoring Point	Date Published	Pollutant	Units of Measure	Monitoring Frequency Required by Licence	No. of Times measured during month	Min. Value	Mean Value	Median Value	Max. Value
10	Catchment 1 - Ammonia Storage	8/04/16	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		8/04/16	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		8/04/16	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	32	N/A
		8/04/16	pH	pH	Once per month during rain event		N/A	N/A	7.6	N/A
		8/04/16	Phosphate	mg/L	Once per month during rain event		N/A	N/A	3.2	N/A
		8/04/16	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	67	N/A
		8/04/16	Flow	kL/Day	Daily during discharge		15	4	53	56
11	Catchment 2 - Admin/NH3	8/04/16	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	0.03	N/A
		8/04/16	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		8/04/16	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	15	N/A
		8/04/16	pH	pH	Once per month during rain event		N/A	N/A	7.7	N/A
		8/04/16	Phosphate	mg/L	Once per month during rain event		N/A	N/A	1.4	N/A
		8/04/16	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	88	N/A
		8/04/16	Flow	kL/Day	Daily during discharge		12	1	45	25
12	Catchment 3 - Ammonia	8/04/16	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	0.02	N/A
		8/04/16	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		8/04/16	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	7	N/A
		8/04/16	pH	pH	Once per month during rain event		N/A	N/A	7.6	N/A
		8/04/16	Phosphate	mg/L	Once per month during rain event		N/A	N/A	4.0	N/A
		8/04/16	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	112	N/A
		8/04/16	Flow	kL/Day	Daily during discharge		7	1	15	4
13	Catchment 4 - Nitrates	8/04/16	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		8/04/16	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		8/04/16	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	286	N/A
		8/04/16	pH	pH	Once per month during rain event		N/A	N/A	7.4	N/A
		8/04/16	Phosphate	mg/L	Once per month during rain event		N/A	N/A	1	N/A
		8/04/16	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	88	N/A
		8/04/16	Flow	kL/Day	Daily during discharge		1	N/A	N/A	36
14	Catchment 5 - Bagging South	8/04/16	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		8/04/16	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		8/04/16	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	100	N/A
		8/04/16	pH	pH	Once per month during rain event		N/A	N/A	7.2	N/A
		8/04/16	Phosphate	mg/L	Once per month during rain event		N/A	N/A	1	N/A
		8/04/16	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	55	N/A
		8/04/16	Flow	kL/Day	Daily during discharge		1	N/A	N/A	1
15	Catchment 6 - Bagging North	8/04/16	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		8/04/16	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		8/04/16	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	25	N/A
		8/04/16	pH	pH	Once per month during rain event		N/A	N/A	7.3	N/A
		8/04/16	Phosphate	mg/L	Once per month during rain event		N/A	N/A	0	N/A
		8/04/16	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	36	N/A
		8/04/16	Flow	kL/Day	Daily during discharge		1	N/A	N/A	1



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 Concentration Limit: See licence M2.3

### Monthly Summary: February 2016

Monitoring Point	Location of Monitoring Point	Date Published	Pollutant	Units of Measure	Monitoring Frequency Required by Licence	No. of Times measured during month	Min. Value	Mean Value	Median Value	Max. Value
10	Catchment 1 - Ammonia Storage	4/03/16	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		4/03/16	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		4/03/16	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	53	N/A
		4/03/16	pH	pH	Once per month during rain event		N/A	N/A	7.4	N/A
		4/03/16	Phosphate	mg/L	Once per month during rain event		N/A	N/A	1.0	N/A
		4/03/16	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	44	N/A
		4/03/16	Flow	kL/Day	Daily during discharge		7	1	30	26
11	Catchment 2 - Admin/NH3	4/03/16	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	0.08	N/A
		4/03/16	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		4/03/16	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	20	N/A
		4/03/16	pH	pH	Once per month during rain event		N/A	N/A	7.6	N/A
		4/03/16	Phosphate	mg/L	Once per month during rain event		N/A	N/A	1.0	N/A
		4/03/16	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	24	N/A
		4/03/16	Flow	kL/Day	Daily during discharge		29	27	104	101
12	Catchment 3 - Ammonia	4/03/16	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	0.01	N/A
		4/03/16	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		4/03/16	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	14	N/A
		4/03/16	pH	pH	Once per month during rain event		N/A	N/A	7.6	N/A
		4/03/16	Phosphate	mg/L	Once per month during rain event		N/A	N/A	2.6	N/A
		4/03/16	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	54	N/A
		4/03/16	Flow	kL/Day	Daily during discharge		13	1	11	1
13	Catchment 4 - Nitrates	4/03/16	Arsenic	mg/L	Once per month during rain event	No Flow detected in Catchment 4 during February	N/A	N/A	N/A	N/A
		4/03/16	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		4/03/16	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		4/03/16	pH	pH	Once per month during rain event		N/A	N/A	N/A	N/A
		4/03/16	Phosphate	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		4/03/16	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		4/03/16	Flow	kL/Day	Daily during discharge		0	N/A	N/A	N/A
14	Catchment 5 - Bagging South	4/03/16	Arsenic	mg/L	Once per month during rain event	No Flow detected in Catchment 5 during February	N/A	N/A	N/A	N/A
		4/03/16	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		4/03/16	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		4/03/16	pH	pH	Once per month during rain event		N/A	N/A	N/A	N/A
		4/03/16	Phosphate	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		4/03/16	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		4/03/16	Flow	kL/Day	Daily during discharge		0	N/A	N/A	N/A
15	Catchment 6 - Bagging North	4/03/16	Arsenic	mg/L	Once per month during rain event	No Flow detected in Catchment 6 during February	N/A	N/A	N/A	N/A
		4/03/16	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		4/03/16	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		4/03/16	pH	pH	Once per month during rain event		N/A	N/A	N/A	N/A
		4/03/16	Phosphate	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		4/03/16	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		4/03/16	Flow	kL/Day	Daily during discharge		0	N/A	N/A	N/A



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 Concentration Limit: See licence M2.3

### Monthly Summary: January 2016

Monitoring Point	Location of Monitoring Point	Date Published	Pollutant	Units of Measure	Monitoring Frequency Required by Licence	No. of Times measured during month	Min. Value	Mean Value	Median Value	Max. Value
10	Catchment 1 - Ammonia Storage	5/02/16	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<-0.01	N/A
		5/02/16	Chromium (hexavalent)	mg/L	Once per month during rain event					
		5/02/16	Nitrogen (total)	mg/L	Once per month during rain event					
		5/02/16	pH	pH	Once per month during rain event					
		5/02/16	Phosphate	mg/L	Once per month during rain event					
		5/02/16	Total Suspended Solids	mg/L	Once per month during rain event					
		5/02/16	Flow	kL/Day	Daily during discharge					
11	Catchment 2 - Admin/NH3	5/02/16	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	0.01	N/A
		5/02/16	Chromium (hexavalent)	mg/L	Once per month during rain event					
		5/02/16	Nitrogen (total)	mg/L	Once per month during rain event					
		5/02/16	pH	pH	Once per month during rain event					
		5/02/16	Phosphate	mg/L	Once per month during rain event					
		5/02/16	Total Suspended Solids	mg/L	Once per month during rain event					
		5/02/16	Flow	kL/Day	Daily during discharge					
12	Catchment 3 - Ammonia	5/02/16	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	0.01	N/A
		5/02/16	Chromium (hexavalent)	mg/L	Once per month during rain event					
		5/02/16	Nitrogen (total)	mg/L	Once per month during rain event					
		5/02/16	pH	pH	Once per month during rain event					
		5/02/16	Phosphate	mg/L	Once per month during rain event					
		5/02/16	Total Suspended Solids	mg/L	Once per month during rain event					
		5/02/16	Flow	kL/Day	Daily during discharge					
13	Catchment 4 - Nitrates	5/02/16	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<-0.01	N/A
		5/02/16	Chromium (hexavalent)	mg/L	Once per month during rain event					
		5/02/16	Nitrogen (total)	mg/L	Once per month during rain event					
		5/02/16	pH	pH	Once per month during rain event					
		5/02/16	Phosphate	mg/L	Once per month during rain event					
		5/02/16	Total Suspended Solids	mg/L	Once per month during rain event					
		5/02/16	Flow	kL/Day	Daily during discharge					
14	Catchment 5 - Bagging South	5/02/16	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<-0.01	N/A
		5/02/16	Chromium (hexavalent)	mg/L	Once per month during rain event					
		5/02/16	Nitrogen (total)	mg/L	Once per month during rain event					
		5/02/16	pH	pH	Once per month during rain event					
		5/02/16	Phosphate	mg/L	Once per month during rain event					
		5/02/16	Total Suspended Solids	mg/L	Once per month during rain event					
		5/02/16	Flow	kL/Day	Daily during discharge					
15	Catchment 6 - Bagging North	5/02/16	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<-0.01	N/A
		5/02/16	Chromium (hexavalent)	mg/L	Once per month during rain event					
		5/02/16	Nitrogen (total)	mg/L	Once per month during rain event					
		5/02/16	pH	pH	Once per month during rain event					
		5/02/16	Phosphate	mg/L	Once per month during rain event					
		5/02/16	Total Suspended Solids	mg/L	Once per month during rain event					
		5/02/16	Flow	kL/Day	Daily during discharge					



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 Concentration Limit: See licence M2.3

### Monthly Summary: December 2015

Monitoring Point	Location of Monitoring Point	Date Published	Pollutant	Units of Measure	Monitoring Frequency Required by Licence	No. of Times measured during month	Min. Value	Mean Value	Median Value	Max. Value
10	Catchment 1 - Ammonia Storage	4/01/16	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		4/01/16	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		4/01/16	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	58	N/A
		4/01/16	pH	pH	Once per month during rain event		N/A	N/A	6.8	N/A
		4/01/16	Phosphate	mg/L	Once per month during rain event		N/A	N/A	5.1	N/A
		4/01/16	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	105	N/A
		4/01/16	Flow	kL/Day	Daily during discharge	7	1	151	117	344
11	Catchment 2 - Admin/NH3	4/01/16	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	0.01	N/A
		4/01/16	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		4/01/16	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	12	N/A
		4/01/16	pH	pH	Once per month during rain event		N/A	N/A	6.9	N/A
		4/01/16	Phosphate	mg/L	Once per month during rain event		N/A	N/A	2.0	N/A
		4/01/16	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	46	N/A
		4/01/16	Flow	kL/Day	Daily during discharge	10	5	170	95	559
12	Catchment 3 - Ammonia	4/01/16	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	0.02	N/A
		4/01/16	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	0.01	N/A
		4/01/16	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	9	N/A
		4/01/16	pH	pH	Once per month during rain event		N/A	N/A	6.9	N/A
		4/01/16	Phosphate	mg/L	Once per month during rain event		N/A	N/A	4.5	N/A
		4/01/16	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	84	N/A
		4/01/16	Flow	kL/Day	Daily during discharge	8	1	100	42	326
13	Catchment 4 - Nitrates	4/01/16	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		4/01/16	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		4/01/16	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	208	N/A
		4/01/16	pH	pH	Once per month during rain event		N/A	N/A	6.3	N/A
		4/01/16	Phosphate	mg/L	Once per month during rain event		N/A	N/A	0.6	N/A
		4/01/16	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	42	N/A
		4/01/16	Flow	kL/Day	Daily during discharge	3	73	189	135	144
14	Catchment 5 - Bagging South	4/01/16	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		4/01/16	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		4/01/16	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	139	N/A
		4/01/16	pH	pH	Once per month during rain event		N/A	N/A	6.1	N/A
		4/01/16	Phosphate	mg/L	Once per month during rain event		N/A	N/A	0.5	N/A
		4/01/16	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	41	N/A
		4/01/16	Flow	kL/Day	Daily during discharge	0	N/A	N/A	N/A	N/A
15	Catchment 6 - Bagging North	4/01/16	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		4/01/16	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		4/01/16	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	56	N/A
		4/01/16	pH	pH	Once per month during rain event		N/A	N/A	6.0	N/A
		4/01/16	Phosphate	mg/L	Once per month during rain event		N/A	N/A	0.7	N/A
		4/01/16	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	37	N/A
		4/01/16	Flow	kL/Day	Daily during discharge	0	N/A	N/A	N/A	N/A



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Monitoring Point	Location of Monitoring Point	Date Published	Pollutant	Units of Measure	Monitoring Frequency Required by Licence	No. of Times measured during month	Min. Value	Mean Value	Median Value	Max. Value
10	Catchment 1 - Ammonia Storage	2/12/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		2/12/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		2/12/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	54	N/A
		2/12/15	pH	pH	Once per month during rain event		N/A	N/A	7.2	N/A
		2/12/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	1.6	N/A
		2/12/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	79	N/A
		2/12/15	Flow	kL/Day	Daily during discharge	19	1	19	3	114
11	Catchment 2 - Admin/NH3	2/12/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		2/12/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		2/12/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	8	N/A
		2/12/15	pH	pH	Once per month during rain event		N/A	N/A	7.2	N/A
		2/12/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	1.0	N/A
		2/12/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	70	N/A
		2/12/15	Flow	kL/Day	Daily during discharge	15	1	15	2	131
12	Catchment 3 - Ammonia	2/12/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		2/12/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		2/12/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	7	N/A
		2/12/15	pH	pH	Once per month during rain event		N/A	N/A	7.2	N/A
		2/12/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	2.7	N/A
		2/12/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	50	N/A
		2/12/15	Flow	kL/Day	Daily during discharge	6	1	25	6	117
13	Catchment 4 - Nitrates	2/12/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		2/12/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		2/12/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	195	N/A
		2/12/15	pH	pH	Once per month during rain event		N/A	N/A	5.7	N/A
		2/12/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	1.1	N/A
		2/12/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	107	N/A
		2/12/15	Flow	kL/Day	Daily during discharge	2	4	83	83	163
14	Catchment 5 - Bagging South	2/12/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		2/12/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		2/12/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	100	N/A
		2/12/15	pH	pH	Once per month during rain event		N/A	N/A	6.0	N/A
		2/12/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	0.7	N/A
		2/12/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	43	N/A
		2/12/15	Flow	kL/Day	Daily during discharge	1	53	53	53	53
15	Catchment 6 - Bagging North	2/12/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		2/12/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		2/12/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	43	N/A
		2/12/15	pH	pH	Once per month during rain event		N/A	N/A	5.8	N/A
		2/12/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	1.1	N/A
		2/12/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	77	N/A
		2/12/15	Flow	kL/Day	Daily during discharge	0				



## Orica Kooragang Island Monitoring Points 10 - 15

### Details of Licence Conditions

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 Concentration Limit: See licence M2.3

### Monthly Summary: October 2015

Monitoring Point	Location of Monitoring Point	Date Published	Pollutant	Units of Measure	Monitoring Frequency Required by Licence	No. of Times measured during month	Min. Value	Mean Value	Median Value	Max. Value
10	Catchment 1 - Ammonia Storage	9/11/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		9/11/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	0	N/A
		9/11/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	105	N/A
		9/11/15	pH	pH	Once per month during rain event		N/A	N/A	6.9	N/A
		9/11/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	7.4	N/A
		9/11/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	171	N/A
		9/11/15	Flow	kL/Day	Daily during discharge	10	1	80	44	308
11	Catchment 2 - Admin/NH3	9/11/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	0.02	N/A
		9/11/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		9/11/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	34	N/A
		9/11/15	pH	pH	Once per month during rain event		N/A	N/A	7.3	N/A
		9/11/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	4.5	N/A
		9/11/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	188	N/A
		9/11/15	Flow	kL/Day	Daily during discharge	8	3	178	149	590
12	Catchment 3 - Ammonia	9/11/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	0.02	N/A
		9/11/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	0.01	N/A
		9/11/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	13	N/A
		9/11/15	pH	pH	Once per month during rain event		N/A	N/A	7.7	N/A
		9/11/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	6.3	N/A
		9/11/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	194	N/A
		9/11/15	Flow	kL/Day	Daily during discharge	6	12	70	49	140
13	Catchment 4 - Nitrates	9/11/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		9/11/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		9/11/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	1188	N/A
		9/11/15	pH	pH	Once per month during rain event		N/A	N/A	6.5	N/A
		9/11/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	2.4	N/A
		9/11/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	188	N/A
		9/11/15	Flow	kL/Day	Daily during discharge	3	31	52	62	63
14	Catchment 5 - Bagging South	9/11/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		9/11/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		9/11/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	279	N/A
		9/11/15	pH	pH	Once per month during rain event		N/A	N/A	5.4	N/A
		9/11/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	0.9	N/A
		9/11/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	109	N/A
		9/11/15	Flow	kL/Day	Daily during discharge	2	2	10	10	19
15	Catchment 6 - Bagging North	9/11/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		9/11/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		9/11/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	306	N/A
		9/11/15	pH	pH	Once per month during rain event		N/A	N/A	6.3	N/A
		9/11/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	1.4	N/A
		9/11/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	96	N/A
		9/11/15	Flow	kL/Day	Daily during discharge	0				



## Orica Kooragang Island Monitoring Points 10 - 15

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 Concentration Limit: See licence M2.3

### Monthly Summary: September 2015

Monitoring Point	Location of Monitoring Point	Date Published	Pollutant	Units of Measure	Monitoring Frequency Required by Licence	No. of Times measured during month	Min. Value	Mean Value	Median Value	Max. Value
10	Catchment 1 - Ammonia Storage	1/10/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		1/10/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		1/10/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	23	N/A
		1/10/15	pH	pH	Once per month during rain event		N/A	N/A	7.2	N/A
		1/10/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	6.1	N/A
		1/10/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	53	N/A
		1/10/15	Flow	kL/Day	Daily during discharge	18	1	65	35	254
11	Catchment 2 - Admin/NH3	1/10/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	0.02	N/A
		1/10/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		1/10/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	10	N/A
		1/10/15	pH	pH	Once per month during rain event		N/A	N/A	7.2	N/A
		1/10/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	2.1	N/A
		1/10/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	46	N/A
		1/10/15	Flow	kL/Day	Daily during discharge	12	1	65	35	254
12	Catchment 3 - Ammonia	1/10/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	0.20	N/A
		1/10/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	0.01	N/A
		1/10/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	10	N/A
		1/10/15	pH	pH	Once per month during rain event		N/A	N/A	7.0	N/A
		1/10/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	4.9	N/A
		1/10/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	94	N/A
		1/10/15	Flow	kL/Day	Daily during discharge	12	1	51	42	217
13	Catchment 4 - Nitrates	1/10/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		1/10/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		1/10/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	95	N/A
		1/10/15	pH	pH	Once per month during rain event		N/A	N/A	7.7	N/A
		1/10/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	1	N/A
		1/10/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	93	N/A
		1/10/15	Flow	kL/Day	Daily during discharge	2	58	131	131	203
14	Catchment 5 - Bagging South	1/10/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		1/10/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		1/10/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	89.00	N/A
		1/10/15	pH	pH	Once per month during rain event		N/A	N/A	7.80	N/A
		1/10/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	0.3	N/A
		1/10/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	89	N/A
		1/10/15	Flow	kL/Day	Daily during discharge	2	2	55	55	94
15	Catchment 6 - Bagging North	1/10/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		1/10/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		1/10/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	25	N/A
		1/10/15	pH	pH	Once per month during rain event		N/A	N/A	7	N/A
		1/10/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	1	N/A
		1/10/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	117	N/A
		1/10/15	Flow	kL/Day	Daily during discharge	2	3	5	5	8



## Orica Kooragang Island Monitoring Points 10 - 15

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 Licensee Address: 15 Greenleaf Rd, KOORAGANG NSW 2304  
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 Concentration Limit: See licence M2.3

### Monthly Summary: August 2015

Monitoring Point	Location of Monitoring Point	Date Published	Pollutant	Units of Measure	Monitoring Frequency Required by Licence	No. of Times measured during month	Min. Value	Mean Value	Median Value	Max. Value
10	Catchment 1 - Ammonia Storage	2/09/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		2/09/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		2/09/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	19	N/A
		2/09/15	pH	pH	Once per month during rain event		N/A	N/A	6.6	N/A
		2/09/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	8.1	N/A
		2/09/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	154	N/A
		2/09/15	Flow	kL/Day	Daily during discharge		3	12	60	37
11	Catchment 2 - Admin/NH3	2/09/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	0.02	N/A
		2/09/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		2/09/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	6	N/A
		2/09/15	pH	pH	Once per month during rain event		N/A	N/A	6.8	N/A
		2/09/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	5.0	N/A
		2/09/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	127	N/A
		2/09/15	Flow	kL/Day	Daily during discharge		3	3	53	22
12	Catchment 3 - Ammonia	2/09/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	0.02	N/A
		2/09/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		2/09/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	8	N/A
		2/09/15	pH	pH	Once per month during rain event		N/A	N/A	6.9	N/A
		2/09/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	7.7	N/A
		2/09/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	167	N/A
		2/09/15	Flow	kL/Day	Daily during discharge		4	1	40	12
13	Catchment 4 - Nitrates	2/09/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		2/09/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		2/09/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	224	N/A
		2/09/15	pH	pH	Once per month during rain event		N/A	N/A	6.4	N/A
		2/09/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	1	N/A
		2/09/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	34	N/A
		2/09/15	Flow	kL/Day	Daily during discharge		1	N/A	N/A	49
14	Catchment 5 - Bagging South	2/09/15	Arsenic	mg/L	Once per month during rain event	No stormwater discharge from Catchment 5 during July	N/A	N/A	N/A	N/A
		2/09/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		2/09/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		2/09/15	pH	pH	Once per month during rain event		N/A	N/A	N/A	N/A
		2/09/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		2/09/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		2/09/15	Flow	kL/Day	Daily during discharge		N/A	N/A	N/A	N/A
15	Catchment 6 - Bagging North	2/09/15	Arsenic	mg/L	Once per month during rain event	No stormwater discharge from Catchment 6 during July	N/A	N/A	N/A	N/A
		2/09/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		2/09/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		2/09/15	pH	pH	Once per month during rain event		N/A	N/A	N/A	N/A
		2/09/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		2/09/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		2/09/15	Flow	kL/Day	Daily during discharge		N/A	N/A	N/A	N/A





## Orica Kooragang Island Monitoring Points 10 - 15

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 Concentration Limit: See licence M2.3

### Monthly Summary: July 2015

Monitoring Point	Location of Monitoring Point	Date Published	Pollutant	Units of Measure	Monitoring Frequency Required by Licence	No. of Times measured during month	Min. Value	Mean Value	Median Value	Max. Value
10	Catchment 1 - Ammonia Storage	7/08/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		7/08/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		7/08/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	22	N/A
		7/08/15	pH	pH	Once per month during rain event		N/A	N/A	7.7	N/A
		7/08/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	3.3	N/A
		7/08/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	181	N/A
		7/08/15	Flow	kL/Day	Daily during discharge		12	1	27	19
11	Catchment 2 - Admin/NH3	7/08/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	0.03	N/A
		7/08/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		7/08/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	11	N/A
		7/08/15	pH	pH	Once per month during rain event		N/A	N/A	7.6	N/A
		7/08/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	1.0	N/A
		7/08/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	45	N/A
		7/08/15	Flow	kL/Day	Daily during discharge		24	1	46	34
12	Catchment 3 - Ammonia	7/08/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	0.01	N/A
		7/08/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		7/08/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	9	N/A
		7/08/15	pH	pH	Once per month during rain event		N/A	N/A	6.8	N/A
		7/08/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	5.9	N/A
		7/08/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	28	N/A
		7/08/15	Flow	kL/Day	Daily during discharge		10	1	12	11
13	Catchment 4 - Nitrates	7/08/15	Arsenic	mg/L	Once per month during rain event	No stormwater discharge from Catchment 4 during July	N/A	N/A	N/A	N/A
		7/08/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		7/08/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		7/08/15	pH	pH	Once per month during rain event		N/A	N/A	N/A	N/A
		7/08/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		7/08/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		7/08/15	Flow	kL/Day	Daily during discharge		N/A	N/A	N/A	N/A
14	Catchment 5 - Bagging South	7/08/15	Arsenic	mg/L	Once per month during rain event	No stormwater discharge from Catchment 5 during July	N/A	N/A	N/A	N/A
		7/08/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		7/08/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		7/08/15	pH	pH	Once per month during rain event		N/A	N/A	N/A	N/A
		7/08/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		7/08/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		7/08/15	Flow	kL/Day	Daily during discharge		N/A	N/A	N/A	N/A
15	Catchment 6 - Bagging North	7/08/15	Arsenic	mg/L	Once per month during rain event	No stormwater discharge from Catchment 6 during July	N/A	N/A	N/A	N/A
		7/08/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		7/08/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		7/08/15	pH	pH	Once per month during rain event		N/A	N/A	N/A	N/A
		7/08/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		7/08/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		7/08/15	Flow	kL/Day	Daily during discharge		N/A	N/A	N/A	N/A



## Orica Kooragang Island Monitoring Points 10 - 15

### Details of Licence Conditions

EPA Licence No: 828  
 Link to full license on EPA website: <http://www.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=828&id=828&option=licence&searchrange=licence&range=POEO licence&prp-no&status=issued>

Licensee Name: ORICA AUSTRALIA PTY LTD  
 Licensee Address: 15 Greenleaf Rd, KOORAGANG NSW 2304  
 Location of Monitoring Points: [http://www.orica.com/images/UserUploadedImages/495/2013\\_Orica-KI\\_monitoring\\_locations.jpg](http://www.orica.com/images/UserUploadedImages/495/2013_Orica-KI_monitoring_locations.jpg)  
 Concentration Limit: See licence M2.3

### Monthly Summary: June 2015

Monitoring Point	Location of Monitoring Point	Date Published	Pollutant	Units of Measure	Monitoring Frequency Required by Licence	No. of Times measured during month	Min. Value	Mean Value	Median Value	Max. Value
10	Catchment 1 - Ammonia Storage	6/07/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		6/07/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		6/07/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	22	N/A
		6/07/15	pH	pH	Once per month during rain event		N/A	N/A	7.7	N/A
		6/07/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	3.3	N/A
		6/07/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	181	N/A
		6/07/15	Flow	kL/Day	Daily during discharge		22	3	151	74
11	Catchment 2 - Admin/NH3	6/07/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	0.03	N/A
		6/07/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		6/07/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	11	N/A
		6/07/15	pH	pH	Once per month during rain event		N/A	N/A	7.6	N/A
		6/07/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	1.0	N/A
		6/07/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	45	N/A
		6/07/15	Flow	kL/Day	Daily during discharge		30	1	103	56
12	Catchment 3 - Ammonia	6/07/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	0.01	N/A
		6/07/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		6/07/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	9	N/A
		6/07/15	pH	pH	Once per month during rain event		N/A	N/A	6.8	N/A
		6/07/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	5.9	N/A
		6/07/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	28	N/A
		6/07/15	Flow	kL/Day	Daily during discharge		8	14	137	24
13	Catchment 4 - Nitrates	6/07/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		6/07/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		6/07/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	132	N/A
		6/07/15	pH	pH	Once per month during rain event		N/A	N/A	7.6	N/A
		6/07/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	1.2	N/A
		6/07/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	102	N/A
		6/07/15	Flow	kL/Day	Daily during discharge		2	29	370	370
14	Catchment 5 - Bagging South	6/07/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		6/07/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		6/07/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	66	N/A
		6/07/15	pH	pH	Once per month during rain event		N/A	N/A	7.6	N/A
		6/07/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	0.9	N/A
		6/07/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	70	N/A
		6/07/15	Flow	kL/Day	Daily during discharge		1	N/A	N/A	325
15	Catchment 6 - Bagging North	6/07/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		6/07/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		6/07/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	15	N/A
		6/07/15	pH	pH	Once per month during rain event		N/A	N/A	7.4	N/A
		6/07/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	0.9	N/A
		6/07/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	78	N/A
		6/07/15	Flow	kL/Day	Daily during discharge		1	N/A	N/A	156



## Orica Kooragang Island Monitoring Points 10 - 15

### Details of Licence Conditions

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Licensee Name: ORICA AUSTRALIA PTY LTD  
 Licensee Address: 15 Greenleaf Rd, KOORAGANG NSW 2304  
 Location of Monitoring Points: [http://www.orica.com/images/UserUploadedImages/495/2013\\_Orica-KI\\_monitoring\\_locations.jpg](http://www.orica.com/images/UserUploadedImages/495/2013_Orica-KI_monitoring_locations.jpg)  
 Concentration Limit: See licence M2.3

### Monthly Summary: May 2015

Monitoring Point	Location of Monitoring Point	Date Published	Pollutant	Units of Measure	Monitoring Frequency Required by Licence	No. of Times measured during month	Min. Value	Mean Value	Median Value	Max. Value
10	Catchment 1 - Ammonia Storage	1/06/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		1/06/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		1/06/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	29	N/A
		1/06/15	pH	pH	Once per month during rain event		N/A	N/A	7.3	N/A
		1/06/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	1.3	N/A
		1/06/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	140	N/A
		1/06/15	Flow	kL/Day	Daily during discharge	15	1	124	72	457
11	Catchment 2 - Admin/NH3	1/06/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	0	N/A
		1/06/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		1/06/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	14	N/A
		1/06/15	pH	pH	Once per month during rain event		N/A	N/A	7.9	N/A
		1/06/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	0.9	N/A
		1/06/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	134	N/A
		1/06/15	Flow	kL/Day	Daily during discharge	31	29	134	119	367
12	Catchment 3 - Ammonia	1/06/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		1/06/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		1/06/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	5	N/A
		1/06/15	pH	pH	Once per month during rain event		N/A	N/A	7.7	N/A
		1/06/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	6.6	N/A
		1/06/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	23	N/A
		1/06/15	Flow	kL/Day	Daily during discharge	20	1	49	3	324
13	Catchment 4 - Nitrates	1/06/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		1/06/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		1/06/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	225	N/A
		1/06/15	pH	pH	Once per month during rain event		N/A	N/A	7.0	N/A
		1/06/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	1.5	N/A
		1/06/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	130	N/A
		1/06/15	Flow	kL/Day	Daily during discharge	3	1	20	23	37
14	Catchment 5 - Bagging South	1/06/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		1/06/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		1/06/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	77	N/A
		1/06/15	pH	pH	Once per month during rain event		N/A	N/A	6.4	N/A
		1/06/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	0.6	N/A
		1/06/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	62	N/A
		1/06/15	Flow	kL/Day	Daily during discharge	5	7	46	18	150
15	Catchment 6 - Bagging North	1/06/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		1/06/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		1/06/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	19	N/A
		1/06/15	pH	pH	Once per month during rain event		N/A	N/A	7	N/A
		1/06/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	0	N/A
		1/06/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	54	N/A
		1/06/15	Flow	kL/Day	Daily during discharge	4	18	50	24	134



## Orica Kooragang Island Monitoring Points 10 - 15

### Details of Licence Conditions

EPA Licence No: 828  
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Licensee Name: ORICA AUSTRALIA PTY LTD  
 Licensee Address: 15 Greenleaf Rd, KOORAGANG NSW 2304  
 Location of Monitoring Points: [http://www.orica.com/images/UserUploadedImages/495/2013\\_Orica-KI\\_monitoring\\_locations.jpg](http://www.orica.com/images/UserUploadedImages/495/2013_Orica-KI_monitoring_locations.jpg)  
 Concentration Limit: See licence M2.3

### Monthly Summary: April 2015

Monitoring Point	Location of Monitoring Point	Date Published	Pollutant	Units of Measure	Monitoring Frequency Required by Licence	No. of Times measured during month	Min. Value	Mean Value	Median Value	Max. Value
10	Catchment 1 - Ammonia Storage	11/05/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		11/05/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		11/05/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	29	N/A
		11/05/15	pH	pH	Once per month during rain event		N/A	N/A	7.3	N/A
		11/05/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	1.3	N/A
		11/05/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	140	N/A
		21/05/15	Flow	kL/Day	Daily during discharge		23	2	268	99
11	Catchment 2 - Admin/NH3	11/05/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	0	N/A
		11/05/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		11/05/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	14	N/A
		11/05/15	pH	pH	Once per month during rain event		N/A	N/A	7.9	N/A
		11/05/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	0.9	N/A
		11/05/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	134	N/A
		21/05/15	Flow	kL/Day	Daily during discharge		20	1	233	139
12	Catchment 3 - Ammonia	11/05/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		11/05/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		11/05/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	5	N/A
		11/05/15	pH	pH	Once per month during rain event		N/A	N/A	7.7	N/A
		11/05/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	6.6	N/A
		11/05/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	23	N/A
		21/05/15	Flow	kL/Day	Daily during discharge		11	1	354	90
13	Catchment 4 - Nitrates	11/05/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		11/05/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		11/05/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	225	N/A
		11/05/15	pH	pH	Once per month during rain event		N/A	N/A	7.0	N/A
		11/05/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	1.5	N/A
		11/05/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	130	N/A
		21/05/15	Flow	kL/Day	Daily during discharge		10	2	236	59
14	Catchment 5 - Bagging South	11/05/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		11/05/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		11/05/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	77	N/A
		11/05/15	pH	pH	Once per month during rain event		N/A	N/A	6.4	N/A
		11/05/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	0.6	N/A
		11/05/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	62	N/A
		21/05/15	Flow	kL/Day	Daily during discharge		5	7	271	113
15	Catchment 6 - Bagging North	11/05/15	Arsenic	mg/L	Once per month during rain event	1	N/A	N/A	<0.01	N/A
		11/05/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	<0.01	N/A
		11/05/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	19	N/A
		11/05/15	pH	pH	Once per month during rain event		N/A	N/A	7	N/A
		11/05/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	0	N/A
		11/05/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	54	N/A
		21/05/15	Flow	kL/Day	Daily during discharge		3	2	90	101