



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/ViewPOEOLicence.aspx?DOCID=32838&SYSUID=1&LICID=828>

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
 Concentration Limit: See licence M2.3

Monthly Summary: March 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	8/04/15	Arsenic	mg/L	Once per month during rain event	4	<0.01	<0.01	<0.01	<0.01
		8/04/15	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	<0.01
		8/04/15	Nitrogen (total)	mg/L	Once per month during rain event		29	51	48	78
		8/04/15	pH	pH	Once per month during rain event		6.6	7.0	7.1	7.9
		8/04/15	Phosphate	mg/L	Once per month during rain event		0.9	2.0	1.7	3.8
		8/04/15	Total Suspended Solids	mg/L	Once per month during rain event		94	123	129	140
11	Catchment 2 - Admin/NH3	8/04/15	Arsenic	mg/L	Once per month during rain event	3	0.01	0.02	0.02	0.02
		8/04/15	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	<0.01
		8/04/15	Nitrogen (total)	mg/L	Once per month during rain event		6	12	14	17
		8/04/15	pH	pH	Once per month during rain event		7.8	8.0	8.0	8.3
		8/04/15	Phosphate	mg/L	Once per month during rain event		0.9	1.1	1.2	1.2
		8/04/15	Total Suspended Solids	mg/L	Once per month during rain event		43	87	85	134
12	Catchment 3 - Ammonia	8/04/15	Arsenic	mg/L	Once per month during rain event	3	0.01	0.02	0	0.02
		8/04/15	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	<0.01
		8/04/15	Nitrogen (total)	mg/L	Once per month during rain event		5	9	11	11
		8/04/15	pH	pH	Once per month during rain event		7.7	7.9	7.9	8.1
		8/04/15	Phosphate	mg/L	Once per month during rain event		6.6	8.5	7.3	11.6
		8/04/15	Total Suspended Solids	mg/L	Once per month during rain event		23	108	121	180
13	Catchment 4 - Nitrates	8/04/15	Arsenic	mg/L	Once per month during rain event	2	<0.01	<0.01	<0.01	<0.01
		8/04/15	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	<0.01
		8/04/15	Nitrogen (total)	mg/L	Once per month during rain event		225	230	230	235
		8/04/15	pH	pH	Once per month during rain event		6.5	6.7	6.7	7.0
		8/04/15	Phosphate	mg/L	Once per month during rain event		1.5	1.6	1.6	1.6
		8/04/15	Total Suspended Solids	mg/L	Once per month during rain event		126	128	128	130
14	Catchment 5 - Bagging South	8/04/15	Arsenic	mg/L	Once per month during rain event	3	<0.01	<0.01	<0.01	<0.01
		8/04/15	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	<0.01
		8/04/15	Nitrogen (total)	mg/L	Once per month during rain event		208	671	547	1258
		8/04/15	pH	pH	Once per month during rain event		6.0	6.3	6.6	6.9
		8/04/15	Phosphate	mg/L	Once per month during rain event		0.6	0.9	0.8	1.4
		8/04/15	Total Suspended Solids	mg/L	Once per month during rain event		72	114	78	194
15	Catchment 6 - Bagging North	8/04/15	Arsenic	mg/L	Once per month during rain event	No Flow Recorded	N/A	N/A	N/A	N/A
		8/04/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		8/04/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		8/04/15	pH	pH	Once per month during rain event		N/A	N/A	N/A	N/A
		8/04/15	Phosphate	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		8/04/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A



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Monthly Summary: January 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	2/02/15	Arsenic	mg/L	Once per month during rain event	4	<0.01	<0.01	<0.01	<0.01
		2/02/15	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	<0.01
		2/02/15	Nitrogen (total)	mg/L	Once per month during rain event		3	10	8	22
		2/02/15	pH	pH	Once per month during rain event		6.4	6.7	6.7	7.0
		2/02/15	Phosphate	mg/L	Once per month during rain event		0.9	1.4	1.4	1.8
		2/02/15	Total Suspended Solids	mg/L	Once per month during rain event		39	54	43	92
11	Catchment 2 - Admin/NH3	2/02/15	Arsenic	mg/L	Once per month during rain event	4	<0.01	<0.01	<0.01	0.02
		2/02/15	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	<0.01
		2/02/15	Nitrogen (total)	mg/L	Once per month during rain event		<1	3	3	5
		2/02/15	pH	pH	Once per month during rain event		6.7	6.8	6.8	7.1
		2/02/15	Phosphate	mg/L	Once per month during rain event		0.3	0.7	0.6	1.3
		2/02/15	Total Suspended Solids	mg/L	Once per month during rain event		17	32	22	68
12	Catchment 3 - Ammonia	2/02/15	Arsenic	mg/L	Once per month during rain event	4	<0.01	<0.01	<0.01	0.02
		2/02/15	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	<0.01
		2/02/15	Nitrogen (total)	mg/L	Once per month during rain event		4	38	28	93
		2/02/15	pH	pH	Once per month during rain event		6.5	6.7	6.7	7.2
		2/02/15	Phosphate	mg/L	Once per month during rain event		1.6	2.0	1.8	2.7
		2/02/15	Total Suspended Solids	mg/L	Once per month during rain event		23	49	54	65
13	Catchment 4 - Nitrates	2/02/15	Arsenic	mg/L	Once per month during rain event	3	<0.01	<0.01	<0.01	<0.01
		2/02/15	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	<0.01
		2/02/15	Nitrogen (total)	mg/L	Once per month during rain event		97	183	114	338
		2/02/15	pH	pH	Once per month during rain event		6.7	6.7	6.7	6.9
		2/02/15	Phosphate	mg/L	Once per month during rain event		0.6	1.1	1.1	1.5
		2/02/15	Total Suspended Solids	mg/L	Once per month during rain event		39	82	96	112
14	Catchment 5 - Bagging South	2/02/15	Arsenic	mg/L	Once per month during rain event	3	<0.01	<0.01	<0.01	<0.01
		2/02/15	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	<0.01
		2/02/15	Nitrogen (total)	mg/L	Once per month during rain event		125	218	254	275
		2/02/15	pH	pH	Once per month during rain event		6.2	6.3	6.3	6.5
		2/02/15	Phosphate	mg/L	Once per month during rain event		0.4	0.6	0.6	0.7
		2/02/15	Total Suspended Solids	mg/L	Once per month during rain event		60	83	73	116
15	Catchment 6 - Bagging North	2/02/15	Arsenic	mg/L	Once per month during rain event	1	N/A	<0.01	N/A	N/A
		2/02/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	<0.01	N/A	N/A
		2/02/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	19	N/A	N/A
		2/02/15	pH	pH	Once per month during rain event		N/A	6.7	N/A	N/A
		2/02/15	Phosphate	mg/L	Once per month during rain event		N/A	0.2	N/A	N/A
		2/02/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	79	N/A	N/A



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Monthly Summary: December 2014

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	5/01/15	Arsenic	mg/L	Once per month during rain event	3	<0.01	<0.01	<0.01	<0.01
		5/01/15	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	<0.01
		5/01/15	Nitrogen (total)	mg/L	Once per month during rain event		14	19	16	27
		5/01/15	pH	pH	Once per month during rain event		6.3	6.7	7.0	7.5
		5/01/15	Phosphate	mg/L	Once per month during rain event		0.8	1.2	1.1	1.8
		5/01/15	Total Suspended Solids	mg/L	Once per month during rain event		10	76	75	142
11	Catchment 2 - Admin/NH3	5/01/15	Arsenic	mg/L	Once per month during rain event	4	<0.01	0.01	<0.01	0.03
		5/01/15	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	<0.01
		5/01/15	Nitrogen (total)	mg/L	Once per month during rain event		6	8	8	11
		5/01/15	pH	pH	Once per month during rain event		6.5	6.9	6.9	7.4
		5/01/15	Phosphate	mg/L	Once per month during rain event		0.5	0.7	0.8	1.0
		5/01/15	Total Suspended Solids	mg/L	Once per month during rain event		53	88	69	161
12	Catchment 3 - Ammonia	5/01/15	Arsenic	mg/L	Once per month during rain event	4	<0.01	0.01	0.01	0.02
		5/01/15	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	<0.01
		5/01/15	Nitrogen (total)	mg/L	Once per month during rain event		1	23	5	82
		5/01/15	pH	pH	Once per month during rain event		6.5	6.7	6.8	7.4
		5/01/15	Phosphate	mg/L	Once per month during rain event		2.8	3.8	3.2	5.8
		5/01/15	Total Suspended Solids	mg/L	Once per month during rain event		51	102	98	159
13	Catchment 4 - Nitrates	5/01/15	Arsenic	mg/L	Once per month during rain event	3	<0.01	<0.01	<0.01	0
		5/01/15	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	<0.01
		5/01/15	Nitrogen (total)	mg/L	Once per month during rain event		150	338	157	707
		5/01/15	pH	pH	Once per month during rain event		6.3	6.6	6.7	7.2
		5/01/15	Phosphate	mg/L	Once per month during rain event		0.5	0.9	0.9	1.2
		5/01/15	Total Suspended Solids	mg/L	Once per month during rain event		71	89	94	101
14	Catchment 5 - Bagging South	5/01/15	Arsenic	mg/L	Once per month during rain event	4	<0.01	<0.01	<0.01	<0.01
		5/01/15	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	<0.01
		5/01/15	Nitrogen (total)	mg/L	Once per month during rain event		89	129	126	177
		5/01/15	pH	pH	Once per month during rain event		6.5	6.7	6.7	6.8
		5/01/15	Phosphate	mg/L	Once per month during rain event		0.6	1.1	1.0	1.8
		5/01/15	Total Suspended Solids	mg/L	Once per month during rain event		60	110	125	132
15	Catchment 6 - Bagging North	5/01/15	Arsenic	mg/L	Once per month during rain event	1	N/A	<0.01	N/A	N/A
		5/01/15	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	<0.01	N/A	N/A
		5/01/15	Nitrogen (total)	mg/L	Once per month during rain event		N/A	20	N/A	N/A
		5/01/15	pH	pH	Once per month during rain event		N/A	6.6	N/A	N/A
		5/01/15	Phosphate	mg/L	Once per month during rain event		N/A	0.3	N/A	N/A
		5/01/15	Total Suspended Solids	mg/L	Once per month during rain event		N/A	54	N/A	N/A



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Monthly Summary: November 2014

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	4/12/14	Arsenic	mg/L	Once per month during rain event	3	<0.01	<0.01	<0.01	0.02
		4/12/14	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	<0.01
		4/12/14	Nitrogen (total)	mg/L	Once per month during rain event		17	90	117	138
		4/12/14	pH	pH	Once per month during rain event		6.0	6.3	6.6	6.7
		4/12/14	Phosphate	mg/L	Once per month during rain event		1.7	2.8	2.9	3.7
		4/12/14	Total Suspended Solids	mg/L	Once per month during rain event		75	116	99	173
11	Catchment 2 - Admin/NH3	4/12/14	Arsenic	mg/L	Once per month during rain event	3	0.01	0.02	0.02	0.02
		4/12/14	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	<0.01
		4/12/14	Nitrogen (total)	mg/L	Once per month during rain event		11	38	49	55
		4/12/14	pH	pH	Once per month during rain event		6.2	6.4	6.6	6.7
		4/12/14	Phosphate	mg/L	Once per month during rain event		1.4	2.1	1.7	3.3
		4/12/14	Total Suspended Solids	mg/L	Once per month during rain event		18	54	65	79
12	Catchment 3 - Ammonia	4/12/14	Arsenic	mg/L	Once per month during rain event	3	<0.01	0.02	0.03	0.03
		4/12/14	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	0.01
		4/12/14	Nitrogen (total)	mg/L	Once per month during rain event		2	13	14	22
		4/12/14	pH	pH	Once per month during rain event		6.5	6.6	6.6	6.9
		4/12/14	Phosphate	mg/L	Once per month during rain event		3.5	5.0	5.6	5.8
		4/12/14	Total Suspended Solids	mg/L	Once per month during rain event		99	139	139	417
13	Catchment 4 - Nitrates	4/12/14	Arsenic	mg/L	Once per month during rain event	1	N/A	<0.01	N/A	N/A
		4/12/14	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	<0.01	N/A	N/A
		4/12/14	Nitrogen (total)	mg/L	Once per month during rain event		N/A	287	N/A	N/A
		4/12/14	pH	pH	Once per month during rain event		N/A	6.0	N/A	N/A
		4/12/14	Phosphate	mg/L	Once per month during rain event		N/A	5.6	N/A	N/A
		4/12/14	Total Suspended Solids	mg/L	Once per month during rain event		N/A	52	N/A	N/A
14	Catchment 5 - Bagging South	4/12/14	Arsenic	mg/L	Once per month during rain event	1	N/A	<0.01	N/A	N/A
		4/12/14	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	<0.01	N/A	N/A
		4/12/14	Nitrogen (total)	mg/L	Once per month during rain event		N/A	100	N/A	N/A
		4/12/14	pH	pH	Once per month during rain event		N/A	6.2	N/A	N/A
		4/12/14	Phosphate	mg/L	Once per month during rain event		N/A	1.3	N/A	N/A
		4/12/14	Total Suspended Solids	mg/L	Once per month during rain event		N/A	34	N/A	N/A
15	Catchment 6 - Bagging North	4/12/14	Arsenic	mg/L	Once per month during rain event	No Discharge recorded for Catchment 6	N/A	N/A	N/A	N/A
		4/12/14	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		4/12/14	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		4/12/14	pH	pH	Once per month during rain event		N/A	N/A	N/A	N/A
		4/12/14	Phosphate	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		4/12/14	Total Suspended Solids	mg/L	Once per month during rain event		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	5/11/14	Arsenic	mg/L	Once per month during rain event	1	N/A	<0.01	N/A	N/A
		5/11/14	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	<0.01	N/A	N/A
		5/11/14	Nitrogen (total)	mg/L	Once per month during rain event		N/A	99	N/A	N/A
		5/11/14	pH	pH	Once per month during rain event		N/A	6.7	N/A	N/A
		5/11/14	Phosphate	mg/L	Once per month during rain event		N/A	7.7	N/A	N/A
		5/11/14	Total Suspended Solids	mg/L	Once per month during rain event		N/A	81	N/A	N/A
11	Catchment 2 - Admin/NH3	5/11/14	Arsenic	mg/L	Once per month during rain event	1	N/A	0.04	N/A	N/A
		5/11/14	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	<0.01	N/A	N/A
		5/11/14	Nitrogen (total)	mg/L	Once per month during rain event		N/A	68	N/A	N/A
		5/11/14	pH	pH	Once per month during rain event		N/A	6.7	N/A	N/A
		5/11/14	Phosphate	mg/L	Once per month during rain event		N/A	4.1	N/A	N/A
		5/11/14	Total Suspended Solids	mg/L	Once per month during rain event		N/A	118	N/A	N/A
12	Catchment 3 - Ammonia	5/11/14	Arsenic	mg/L	Once per month during rain event	1	N/A	0.02	N/A	N/A
		5/11/14	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	<0.01	N/A	N/A
		5/11/14	Nitrogen (total)	mg/L	Once per month during rain event		N/A	24	N/A	N/A
		5/11/14	pH	pH	Once per month during rain event		N/A	6.8	N/A	N/A
		5/11/14	Phosphate	mg/L	Once per month during rain event		N/A	5.2	N/A	N/A
		5/11/14	Total Suspended Solids	mg/L	Once per month during rain event		N/A	59	N/A	N/A
13	Catchment 4 - Nitrates	5/11/14	Arsenic	mg/L	Once per month during rain event	1	N/A	<0.01	N/A	N/A
		5/11/14	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	<0.01	N/A	N/A
		5/11/14	Nitrogen (total)	mg/L	Once per month during rain event		N/A	583	N/A	N/A
		5/11/14	pH	pH	Once per month during rain event		N/A	7	N/A	N/A
		5/11/14	Phosphate	mg/L	Once per month during rain event		N/A	2.2	N/A	N/A
		5/11/14	Total Suspended Solids	mg/L	Once per month during rain event		N/A	133	N/A	N/A
14	Catchment 5 - Bagging South	5/11/14	Arsenic	mg/L	Once per month during rain event	1	N/A	0	N/A	N/A
		5/11/14	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	<0.01	N/A	N/A
		5/11/14	Nitrogen (total)	mg/L	Once per month during rain event		N/A	291	N/A	N/A
		5/11/14	pH	pH	Once per month during rain event		N/A	6	N/A	N/A
		5/11/14	Phosphate	mg/L	Once per month during rain event		N/A	2.0	N/A	N/A
		5/11/14	Total Suspended Solids	mg/L	Once per month during rain event		N/A	170	N/A	N/A
15	Catchment 6 - Bagging North	5/11/14	Arsenic	mg/L	Once per month during rain event	1	N/A	<0.01	N/A	N/A
		5/11/14	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	<0.01	N/A	N/A
		5/11/14	Nitrogen (total)	mg/L	Once per month during rain event		N/A	114	N/A	N/A
		5/11/14	pH	pH	Once per month during rain event		N/A	6	N/A	N/A
		5/11/14	Phosphate	mg/L	Once per month during rain event		N/A	1.1	N/A	N/A
		5/11/14	Total Suspended Solids	mg/L	Once per month during rain event		N/A	98	N/A	N/A



Orica Kooragang Island Monitoring Points 10 - 15

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 Concentration Limit: See licence M2.3

Monthly Summary: September 2014

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	8/10/14	Arsenic	mg/L	Once per month during rain event	3	<0.01	<0.01	<0.01	<0.01
		8/10/14	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	<0.01
		8/10/14	Nitrogen (total)	mg/L	Once per month during rain event		14	21	22	26
		8/10/14	pH	pH	Once per month during rain event		7.1	7.5	7.90	8.1
		8/10/14	Phosphate	mg/L	Once per month during rain event		1.1	2.1	1.3	3.9
		8/10/14	Total Suspended Solids	mg/L	Once per month during rain event		63	98	82	148
11	Catchment 2 - Admin/NH3	8/10/14	Arsenic	mg/L	Once per month during rain event	2	0.02	0.02	N/A	0.02
		8/10/14	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	N/A	<0.01
		8/10/14	Nitrogen (total)	mg/L	Once per month during rain event		9	12	N/A	15
		8/10/14	pH	pH	Once per month during rain event		7.2	7.4	N/A	7.9
		8/10/14	Phosphate	mg/L	Once per month during rain event		0.8	1.6	N/A	2.4
		8/10/14	Total Suspended Solids	mg/L	Once per month during rain event		16	71	N/A	125
12	Catchment 3 - Ammonia	8/10/14	Arsenic	mg/L	Once per month during rain event	3	0.01	0.02	0.02	0.03
		8/10/14	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	0.01
		8/10/14	Nitrogen (total)	mg/L	Once per month during rain event		5	5	5	5
		8/10/14	pH	pH	Once per month during rain event		7.2	7.5	7.8	7.8
		8/10/14	Phosphate	mg/L	Once per month during rain event		2.2	4.7	3.5	8.4
		8/10/14	Total Suspended Solids	mg/L	Once per month during rain event		91	125	98	188
13	Catchment 4 - Nitrates	8/10/14	Arsenic	mg/L	Once per month during rain event	No discharge Recorded	N/A	N/A	N/A	N/A
		8/10/14	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		8/10/14	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		8/10/14	pH	pH	Once per month during rain event		N/A	N/A	N/A	N/A
		8/10/14	Phosphate	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		8/10/14	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
14	Catchment 5 - Bagging South	8/10/14	Arsenic	mg/L	Once per month during rain event	No discharge Recorded	N/A	N/A	N/A	N/A
		8/10/14	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		8/10/14	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		8/10/14	pH	pH	Once per month during rain event		N/A	N/A	N/A	N/A
		8/10/14	Phosphate	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		8/10/14	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
15	Catchment 6 - Bagging North	8/10/14	Arsenic	mg/L	Once per month during rain event	No discharge Recorded	N/A	N/A	N/A	N/A
		8/10/14	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		8/10/14	Nitrogen (total)	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		8/10/14	pH	pH	Once per month during rain event		N/A	N/A	N/A	N/A
		8/10/14	Phosphate	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A
		8/10/14	Total Suspended Solids	mg/L	Once per month during rain event		N/A	N/A	N/A	N/A



Orica Kooragang Island Monitoring Points 10 - 15

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Monthly Summary: August 2014

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	5/09/14	Arsenic	mg/L	Once per month during rain event	2	<0.01	<0.01	N/A	<0.01
		5/09/14	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	N/A	<0.01
		5/09/14	Nitrogen (total)	mg/L	Once per month during rain event		10	20	N/A	30
		5/09/14	pH	pH	Once per month during rain event		7.6	7.8	N/A	8.1
		5/09/14	Phosphate	mg/L	Once per month during rain event		4.4	6.1	N/A	7.8
		5/09/14	Total Suspended Solids	mg/L	Once per month during rain event		172	187	N/A	202
11	Catchment 2 - Admin/NH3	5/09/14	Arsenic	mg/L	Once per month during rain event	3	0.01	0.02	0.02	0.03
		5/09/14	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	<0.01
		5/09/14	Nitrogen (total)	mg/L	Once per month during rain event		8	22	10	47
		5/09/14	pH	pH	Once per month during rain event		7.7	7.8	7.8	7.9
		5/09/14	Phosphate	mg/L	Once per month during rain event		0.6	0.7	0.7	0.8
		5/09/14	Total Suspended Solids	mg/L	Once per month during rain event		23	30	33	34
12	Catchment 3 - Ammonia	5/09/14	Arsenic	mg/L	Once per month during rain event		0.02	0.02	0.02	0.02
		5/09/14	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	0.01
		5/09/14	Nitrogen (total)	mg/L	Once per month during rain event		1	3.00	3.00	6
		5/09/14	pH	pH	Once per month during rain event		7.7	7.8	7.7	7.9
		5/09/14	Phosphate	mg/L	Once per month during rain event		2.6	4.80	3.6	8.3
		5/09/14	Total Suspended Solids	mg/L	Once per month during rain event		58	112	131	157
13	Catchment 4 - Nitrates	5/09/14	Arsenic	mg/L	Once per month during rain event	2	<0.01	<0.01	N/A	<0.01
		5/09/14	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	N/A	<0.01
		5/09/14	Nitrogen (total)	mg/L	Once per month during rain event		60	90	N/A	120
		5/09/14	pH	pH	Once per month during rain event		6.8	7.0	N/A	7.7
		5/09/14	Phosphate	mg/L	Once per month during rain event		0.8	1.0	N/A	1.2
		5/09/14	Total Suspended Solids	mg/L	Once per month during rain event		132	144	N/A	156
14	Catchment 5 - Bagging South	5/09/14	Arsenic	mg/L	Once per month during rain event	2	<0.01	<0.01	N/A	<0.01
		5/09/14	Chromium (hexavalent)	mg/L	Once per month during rain event		0.01	0.01	N/A	0.02
		5/09/14	Nitrogen (total)	mg/L	Once per month during rain event		17	21	N/A	25
		5/09/14	pH	pH	Once per month during rain event		7.3	7.4	N/A	7.6
		5/09/14	Phosphate	mg/L	Once per month during rain event		1.2	1.3	N/A	1.4
		5/09/14	Total Suspended Solids	mg/L	Once per month during rain event		218	263	N/A	308
15	Catchment 6 - Bagging North	5/09/14	Arsenic	mg/L	Once per month during rain event	2	<0.01	<0.01	N/A	<0.01
		5/09/14	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	N/A	<0.01
		5/09/14	Nitrogen (total)	mg/L	Once per month during rain event		18	24	N/A	30
		5/09/14	pH	pH	Once per month during rain event		7.8	7.8	N/A	7.9
		5/09/14	Phosphate	mg/L	Once per month during rain event		0.4	0.6	N/A	0.8
		5/09/14	Total Suspended Solids	mg/L	Once per month during rain event		24	74	N/A	124



Orica Kooragang Island Monitoring Points 10 - 15

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Monthly Summary: July 2014

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	14/08/14	Arsenic	mg/L	Once per month during rain event	2	<0.01	N/A	N/A	<0.01
		14/08/14	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	N/A	N/A	<0.01
		14/08/14	Nitrogen (total)	mg/L	Once per month during rain event		12	N/A	N/A	16
		14/08/14	pH	pH	Once per month during rain event		7.6	N/A	N/A	8.8
		14/08/14	Phosphate	mg/L	Once per month during rain event		0.1	N/A	N/A	3.9
		14/08/14	Total Suspended Solids	mg/L	Once per month during rain event		43	N/A	N/A	113
11	Catchment 2 - Admin/NH3	14/08/14	Arsenic	mg/L	Once per month during rain event	3	<0.01	<0.01	<0.01	0.03
		14/08/14	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	<0.01
		14/08/14	Nitrogen (total)	mg/L	Once per month during rain event		10	77	15	205
		14/08/14	pH	pH	Once per month during rain event		7.3	7.9	7.8	8.6
		14/08/14	Phosphate	mg/L	Once per month during rain event		0.0	12.6	2.4	35.6
		14/08/14	Total Suspended Solids	mg/L	Once per month during rain event		31	77	76	124
12	Catchment 3 - Ammonia	14/08/14	Arsenic	mg/L	Once per month during rain event	2	<0.01	N/A	N/A	0.02
		14/08/14	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	N/A	N/A	<0.01
		14/08/14	Nitrogen (total)	mg/L	Once per month during rain event		6	N/A	N/A	11
		14/08/14	pH	pH	Once per month during rain event		7.0	N/A	N/A	8.4
		14/08/14	Phosphate	mg/L	Once per month during rain event		0.6	N/A	N/A	5.4
		14/08/14	Total Suspended Solids	mg/L	Once per month during rain event		117	N/A	N/A	198
13	Catchment 4 - Nitrates	14/08/14	Arsenic	mg/L	Once per month during rain event	1	N/A	<0.01	N/A	N/A
		14/08/14	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	<0.01	N/A	N/A
		14/08/14	Nitrogen (total)	mg/L	Once per month during rain event		N/A	287	N/A	N/A
		14/08/14	pH	pH	Once per month during rain event		N/A	6.9	N/A	N/A
		14/08/14	Phosphate	mg/L	Once per month during rain event		N/A	1.3	N/A	N/A
		14/08/14	Total Suspended Solids	mg/L	Once per month during rain event		N/A	50.0	N/A	N/A
14	Catchment 5 - Bagging South	14/08/14	Arsenic	mg/L	Once per month during rain event	No Discharge Recorded in Catchment 5	n/a	n/a	n/a	n/a
		14/08/14	Chromium (hexavalent)	mg/L	Once per month during rain event		n/a	n/a	n/a	n/a
		14/08/14	Nitrogen (total)	mg/L	Once per month during rain event		n/a	n/a	n/a	n/a
		14/08/14	pH	pH	Once per month during rain event		n/a	n/a	n/a	n/a
		14/08/14	Phosphate	mg/L	Once per month during rain event		n/a	n/a	n/a	n/a
		14/08/14	Total Suspended Solids	mg/L	Once per month during rain event		n/a	n/a	n/a	n/a
15	Catchment 6 - Bagging North	14/08/14	Arsenic	mg/L	Once per month during rain event	No Discharge Recorded in Catchment 6	n/a	n/a	n/a	n/a
		14/08/14	Chromium (hexavalent)	mg/L	Once per month during rain event		n/a	n/a	n/a	n/a
		14/08/14	Nitrogen (total)	mg/L	Once per month during rain event		n/a	n/a	n/a	n/a
		14/08/14	pH	pH	Once per month during rain event		n/a	n/a	n/a	n/a
		14/08/14	Phosphate	mg/L	Once per month during rain event		n/a	n/a	n/a	n/a
		14/08/14	Total Suspended Solids	mg/L	Once per month during rain event		n/a	n/a	n/a	n/a



Orica Kooragang Island Monitoring Points 10 - 15

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Monthly Summary: June 2014

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	3/06/14	Arsenic	mg/L	Once per month during rain event	3	<0.01	<0.01	<0.01	0.01
		3/06/14	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	0.01	<0.01	0.02
		3/06/14	Nitrogen (total)	mg/L	Once per month during rain event		11	15	13	20
		3/06/14	pH	pH	Once per month during rain event		6.7	6.8	6.9	6.9
		3/06/14	Phosphate	mg/L	Once per month during rain event		0.5	2.0	1.5	4.0
		3/06/14	Total Suspended Solids	mg/L	Once per month during rain event		25	127	108	248
11	Catchment 2 - Admin/NH3	3/06/14	Arsenic	mg/L	Once per month during rain event	3	<0.01	0.01	<0.01	0.03
		3/06/14	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	<0.01
		3/06/14	Nitrogen (total)	mg/L	Once per month during rain event		4	13	9	25
		3/06/14	pH	pH	Once per month during rain event		6.6	6.8	7.0	7.1
		3/06/14	Phosphate	mg/L	Once per month during rain event		0.5	0.9	1.0	1.1
		3/06/14	Total Suspended Solids	mg/L	Once per month during rain event		17	35	41	48
12	Catchment 3 - Ammonia	3/06/14	Arsenic	mg/L	Once per month during rain event	2	0.01	0.02	N/A	0.02
		3/06/14	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	N/A	0.02
		3/06/14	Nitrogen (total)	mg/L	Once per month during rain event		2	5	N/A	8
		3/06/14	pH	pH	Once per month during rain event		7.0	7.1	N/A	7.2
		3/06/14	Phosphate	mg/L	Once per month during rain event		2.1	5.7	N/A	9.3
		3/06/14	Total Suspended Solids	mg/L	Once per month during rain event		150	205	N/A	260
13	Catchment 4 - Nitrates	3/06/14	Arsenic	mg/L	Once per month during rain event	2	<0.01	<0.01	N/A	0.02
		3/06/14	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	N/A	<0.01
		3/06/14	Nitrogen (total)	mg/L	Once per month during rain event		111	216	N/A	321
		3/06/14	pH	pH	Once per month during rain event		7.6	7.7	N/A	7.8
		3/06/14	Phosphate	mg/L	Once per month during rain event		0.9	1.1	N/A	1.3
		3/06/14	Total Suspended Solids	mg/L	Once per month during rain event		62	66	N/A	69
14	Catchment 5 - Bagging South	3/06/14	Arsenic	mg/L	Once per month during rain event	2	N/A	<0.01	N/A	N/A
		3/06/14	Chromium (hexavalent)	mg/L	Once per month during rain event		0.01	0.02	N/A	0.02
		3/06/14	Nitrogen (total)	mg/L	Once per month during rain event		177	188	N/A	198
		3/06/14	pH	pH	Once per month during rain event		6.5	6.5	N/A	6.5
		3/06/14	Phosphate	mg/L	Once per month during rain event		0.9	1.1	N/A	1.2
		3/06/14	Total Suspended Solids	mg/L	Once per month during rain event		91	133	N/A	175
15	Catchment 6 - Bagging North	3/06/14	Arsenic	mg/L	Once per month during rain event	1	N/A	<0.01	N/A	N/A
		3/06/14	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	<0.01	N/A	N/A
		3/06/14	Nitrogen (total)	mg/L	Once per month during rain event		N/A	37	N/A	N/A
		3/06/14	pH	pH	Once per month during rain event		N/A	6.8	N/A	N/A
		3/06/14	Phosphate	mg/L	Once per month during rain event		N/A	0.6	N/A	N/A
		3/06/14	Total Suspended Solids	mg/L	Once per month during rain event		N/A	58	N/A	N/A



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Monthly Summary: May 2014

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	3/06/14	Arsenic	mg/L	Once per month during rain event	3	<0.01	<0.01	<0.01	<0.01
		3/06/14	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	0.02
		3/06/14	Nitrogen (total)	mg/L	Once per month during rain event		1	9	8	19
		3/06/14	pH	pH	Once per month during rain event		7.1	7.2	7.2	7.6
		3/06/14	Phosphate	mg/L	Once per month during rain event		1.5	1.6	1.6	1.8
		3/06/14	Total Suspended Solids	mg/L	Once per month during rain event		75	108	100	149
11	Catchment 2 - Admin/NH3	3/06/14	Arsenic	mg/L	Once per month during rain event	3	<0.01	0.02	0.02	0.03
		3/06/14	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	<0.01
		3/06/14	Nitrogen (total)	mg/L	Once per month during rain event		0	4	2	10
		3/06/14	pH	pH	Once per month during rain event		7.0	7.2	7.1	7.6
		3/06/14	Phosphate	mg/L	Once per month during rain event		0.8	1.2	1.3	1.6
		3/06/14	Total Suspended Solids	mg/L	Once per month during rain event		25	40	47	49
12	Catchment 3 - Ammonia	3/06/14	Arsenic	mg/L	Once per month during rain event	3	<0.01	<0.01	<0.01	0.01
		3/06/14	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	<0.01
		3/06/14	Nitrogen (total)	mg/L	Once per month during rain event		0	1	1	2
		3/06/14	pH	pH	Once per month during rain event		7.0	7.1	7.0	7.8
		3/06/14	Phosphate	mg/L	Once per month during rain event		3.8	5.1	4.3	7.3
		3/06/14	Total Suspended Solids	mg/L	Once per month during rain event		70	115	92	183
13	Catchment 4 - Nitrates	3/06/14	Arsenic	mg/L	Once per month during rain event	2	0	<0.01	<0.01	<0.01
		3/06/14	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	<0.01
		3/06/14	Nitrogen (total)	mg/L	Once per month during rain event		120	122	122	123
		3/06/14	pH	pH	Once per month during rain event		7.5	7.7	8.0	8.4
		3/06/14	Phosphate	mg/L	Once per month during rain event		0.9	1.1	1.1	1.2
		3/06/14	Total Suspended Solids	mg/L	Once per month during rain event		38	44	44	50
14	Catchment 5 - Bagging South	3/06/14	Arsenic	mg/L	Once per month during rain event	1	N/A	<0.01	N/A	N/A
		3/06/14	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	<0.01	N/A	N/A
		3/06/14	Nitrogen (total)	mg/L	Once per month during rain event		N/A	27	N/A	N/A
		3/06/14	pH	pH	Once per month during rain event		N/A	6.44	N/A	N/A
		3/06/14	Phosphate	mg/L	Once per month during rain event		N/A	0.4	N/A	N/A
		3/06/14	Total Suspended Solids	mg/L	Once per month during rain event		N/A	7	N/A	N/A
15	Catchment 6 - Bagging North	3/06/14	Arsenic	mg/L	Once per month during rain event	1	N/A	<0.01	N/A	N/A
		3/06/14	Chromium (hexavalent)	mg/L	Once per month during rain event		N/A	<0.01	N/A	N/A
		3/06/14	Nitrogen (total)	mg/L	Once per month during rain event		N/A	91	N/A	N/A
		3/06/14	pH	pH	Once per month during rain event		N/A	6.1	N/A	N/A
		3/06/14	Phosphate	mg/L	Once per month during rain event		N/A	0.7	N/A	N/A
		3/06/14	Total Suspended Solids	mg/L	Once per month during rain event		N/A	75	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/ViewPOEOLicence.aspx?DOCID=32838&SYSUID=1&LICID=828>

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
 Concentration Limit: See licence M2.3

Monthly Summary: April 2014

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	14/05/14	Arsenic	mg/L	Once per month during rain event	5	<0.01	<0.01	<0.01	<0.01
		14/05/14	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	0.02
		14/05/14	Nitrogen (total)	mg/L	Once per month during rain event		3	48	47	105
		14/05/14	pH	pH	Once per month during rain event		6.77	7.16	7.33	7.95
		14/05/14	Phosphate	mg/L	Once per month during rain event		0.5	2.8	1.7	7.3
		14/05/14	Total Suspended Solids	mg/L	Once per month during rain event		59	112	87	222
11	Catchment 2 - Admin/NH3	14/05/14	Arsenic	mg/L	Once per month during rain event	5	<0.01	0.03	0.03	0.11
		14/05/14	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	<0.01	<0.01	<0.01
		14/05/14	Nitrogen (total)	mg/L	Once per month during rain event		1	4	3	9
		14/05/14	pH	pH	Once per month during rain event		6.54	7.06	7.57	7.78
		14/05/14	Phosphate	mg/L	Once per month during rain event		0.5	0.9	0.9	1.8
		14/05/14	Total Suspended Solids	mg/L	Once per month during rain event		6	29	13	84
12	Catchment 3 - Ammonia	14/05/14	Arsenic	mg/L	Once per month during rain event	4	<0.01	<0.01	<0.01	0.01
		14/05/14	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	0.01	0.01	0.020
		14/05/14	Nitrogen (total)	mg/L	Once per month during rain event		0	1	1	2
		14/05/14	pH	pH	Once per month during rain event		6.44	6.98	7.69	8.11
		14/05/14	Phosphate	mg/L	Once per month during rain event		1.3	2.5	2.1	4.4
		14/05/14	Total Suspended Solids	mg/L	Once per month during rain event		38	73	78	96
13	Catchment 4 - Nitrates	14/05/14	Arsenic	mg/L	Once per month during rain event	3	<0.01	<0.01	<0.01	0.01
		14/05/14	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	0.03	0.01	0.08
		14/05/14	Nitrogen (total)	mg/L	Once per month during rain event		130	182	195	220
		14/05/14	pH	pH	Once per month during rain event		6.73	7.17	7.96	8.11
		14/05/14	Phosphate	mg/L	Once per month during rain event		0.6	0.9	0.9	1.3
		14/05/14	Total Suspended Solids	mg/L	Once per month during rain event		13	45	61	62
14	Catchment 5 - Bagging South	14/05/14	Arsenic	mg/L	Once per month during rain event	3	<0.01	<0.01	<0.01	<0.01
		14/05/14	Chromium (hexavalent)	mg/L	Once per month during rain event		<0.01	0.01	0.01	0.01
		14/05/14	Nitrogen (total)	mg/L	Once per month during rain event		53	85	68	135
		14/05/14	pH	pH	Once per month during rain event		6.77	9.6	6.92	8.11
		14/05/14	Phosphate	mg/L	Once per month during rain event		0.4	0.7	0.8	0.9
		14/05/14	Total Suspended Solids	mg/L	Once per month during rain event		28	58	61	86
15	Catchment 6 - Bagging North	14/05/14	Arsenic	mg/L	Once per month during rain event	0	n/a	n/a	n/a	n/a
		14/05/14	Chromium (hexavalent)	mg/L	Once per month during rain event		n/a	n/a	n/a	n/a
		14/05/14	Nitrogen (total)	mg/L	Once per month during rain event		n/a	n/a	n/a	n/a
		14/05/14	pH	pH	Once per month during rain event		n/a	n/a	n/a	n/a
		14/05/14	Phosphate	mg/L	Once per month during rain event		n/a	n/a	n/a	n/a
		14/05/14	Total Suspended Solids	mg/L	Once per month during rain event		n/a	n/a	n/a	n/a