



## Orica Kooragang Island Monitoring Points 23-24

### 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 (See licence reference P1.3):** [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 L3.6

### Monthly Summary: March 2019

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	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments on Exceedences		
23	Effluent Discharge Point	8/04/19	Arsenic	mg/L	Daily	31	0.004	0.048		0.05	No			
		8/04/19	Chromium (hexavalent)	mg/L	Daily	31	0.001	0.0120	0.05	0.2	No			
		8/04/19	Nitrogen (Total)	mg/L	Daily	31	92	592	1500	2000	No			
		8/04/19	Oil and Grease	mg/L	Twice per Week	8	0.2	0.7		10	No			
		8/04/19	pH	pH	Continuous	31	6.6	8.7		6.2-9.5	No			
		8/04/19	Temperature	Degrees Celsius	Continuous	31	19.9	40.1		43	No			
		8/04/19	Total suspended solids	mg/L	Daily	31	6	73		50	Yes			
		8/04/19	Zinc	mg/L	Daily	31	0.029	0.378		5	No			
		8/04/19	Flow	kL/day	Daily	31	1906	3392		4500	No			
		8/04/19					No discharge							
		24	Effluent Diversion Pond	8/04/19										



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**Concentration Limit:** See licence L3.6

### Monthly Summary: February 2019

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	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments on Exceedences	
23	Effluent Discharge Point	11/03/19	Arsenic	mg/L	Daily	28	0.001	0.015		0.05	No		
		11/03/19	Chromium (hexavalent)	mg/L	Daily	28	0.002	0.0037	0.05	0.2	No		
		11/03/19	Nitrogen (Total)	mg/L	Daily	28	118	563	1500	2000	No		
		11/03/19	Oil and Grease	mg/L	Twice per Week	7	0.2	0.4		10	No		
		11/03/19	pH	pH	Continuous	28	7.0	8.6		6.2-9.5	No		
		11/03/19	Temperature	Degrees Celsius	Continuous	28	29.5	39.4		43	No		
		11/03/19	Total suspended solids	mg/L	Daily	28	7	18		50	No		
		11/03/19	Zinc	mg/L	Daily	28	0.029	0.119		5	No		
		11/03/19	Flow	kL/day	Daily	28	1644	3781		4500	No		
		24	Effluent Diversion Pond	11/03/19				No discharge					



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**Concentration Limit:** See licence L3.6

### Monthly Summary: January 2019

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	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments on Exceedences	
23	Effluent Discharge Point	6/02/19	Arsenic	mg/L	Daily	30	0.01	0.02		0.05	No		
		6/02/19	Chromium (hexavalent)	mg/L	Daily	30	<0.01	<0.01	0.05	0.2	No		
		6/02/19	Nitrogen (Total)	mg/L	Daily	30	119	317	1500	2000	No		
		6/02/19	Oil and Grease	mg/L	Twice per Week	11	0.1	0.3		10	No		
		6/02/19	pH	pH	Continuous	30	7.5	8.8		6.2-9.5	No		
		6/02/19	Temperature	Degrees Celsius	Continuous	30	21.3	40.1		43	No		
		6/02/19	Total suspended solids	mg/L	Daily	30	7	16		50	No		
		6/02/19	Zinc	mg/L	Daily	30	<0.1	<0.1		5	No		
		6/02/19	Flow	kL/day	Daily	30	2092	3208		4500	No		
		6/02/19					No discharge						
		24	Effluent Diversion Pond	6/02/19									



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**Concentration Limit:** See licence L3.6

### Monthly Summary: December 2018

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	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments on Exceedences	
23	Effluent Discharge Point	7/01/19	Arsenic	mg/L	Daily	31	0.01	0.02		0.05	No		
			Chromium (hexavalent)	mg/L	Daily	31	<0.01	0.03	0.05	0.2	No		
		7/01/19	Nitrogen (Total)	mg/L	Daily	31	66	336	1500	2000	No		
		7/01/19	Oil and Grease	mg/L	Twice per Week	8	0.2	0.4		10	No		
		7/01/19	pH	pH	Continuous	31	6.5	9.1		6.2-9.5	No		
		7/01/19	Temperature	Degrees Celsius	Continuous	31	29.1	39.0		43	No		
		7/01/19	Total suspended solids	mg/L	Daily	31	8	27		50	No		
		7/01/19	Zinc	mg/L	Daily	31	<0.1	0.2		5	No		
		7/01/19	Flow	kL/day	Daily	31	1783	2717		4500	No		
		24	Effluent Diversion Pond	7/01/19				No discharge					



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**Concentration Limit:** See licence L3.6

### Monthly Summary: November 2018

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	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments on Exceedences
23	Effluent Discharge Point	5/12/18	Arsenic	mg/L	Daily	30	0.01	0.02		0.05	No	
		5/12/18	Chromium (hexavalent)	mg/L	Daily	30	<0.01	0.03	0.05	0.2	No	
		5/12/18	Nitrogen (Total)	mg/L	Daily	30	77	261	1500	2000	No	
		5/12/18	Oil and Grease	mg/L	Twice per Week	9	0.1	0.4		10	No	
		5/12/18	pH	pH	Continuous	30	7.2	8.9		6.2-9.5	No	
		5/12/18	Temperature	Degrees Celsius	Continuous	30	25.2	40.8		43	No	
		5/12/18	Total suspended solids	mg/L	Daily	30	4	18		50	No	
		5/12/18	Zinc	mg/L	Daily	30	<0.1	0.2		5	No	
		5/12/18	Flow	kL/day	Daily	30	1938	2681		4500	No	
		24	Effluent Diversion Pond	5/12/18				No discharge				



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**Concentration Limit:** See licence L3.6

### Monthly Summary: October 2018

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	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments on Exceedences	
23	Effluent Discharge Point	8/11/18	Arsenic	mg/L	Daily	31	0.01	0.02		0.05	No		
		8/11/18	Chromium (hexavalent)	mg/L	Daily	31	<0.01	0.01	0.05	0.2	No		
		8/11/18	Nitrogen (Total)	mg/L	Daily	31	78	378	1500	2000	No		
		8/11/18	Oil and Grease	mg/L	Twice per Week	9	0.1	0.4		10	No		
		8/11/18	pH	pH	Continuous	31	6.8	8.9		6.2-9.5	No		
		8/11/18	Temperature	Degrees Celsius	Continuous	31	21.0	39.6		43	No		
		8/11/18	Total suspended solids	mg/L	Daily	31	8	32		50	No		
		8/11/18	Zinc	mg/L	Daily	31	<0.1	0.2		5	No		
		8/11/18	Flow	kL/day	Daily	31	1856	2768		4500	No		
		24	Effluent Diversion Pond	8/11/18				No discharge					



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**Concentration Limit:** See licence L3.6

### Monthly Summary: September 2018

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	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments on Exceedences	
23	Effluent Discharge Point	3/10/18	Arsenic	mg/L	Daily	30	0.01	0.02		0.05	No		
		3/10/18	Chromium (hexavalent)	mg/L	Daily	30	<0.01	0.02	0.05	0.2	No		
		3/10/18	Nitrogen (Total)	mg/L	Daily	30	94	366	1500	2000	No		
		3/10/18	Oil and Grease	mg/L	Twice per Week	8	0.1	0.8		10	No		
		3/10/18	pH	pH	Continuous	30	6.9	8.8		6.2-9.5	No		
		3/10/18	Temperature	Degrees Celsius	Continuous	30	20.6	40.2		43	No		
		3/10/18	Total suspended solids	mg/L	Daily	30	9	24		50	No		
		3/10/18	Zinc	mg/L	Daily	30	<0.1	0.3		5	No		
		3/10/18	Flow	kL/day	Daily	30	1544	2411		4500	No		
		24	Effluent Diversion Pond	3/10/18				No discharge					



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**Concentration Limit:** See licence L3.6

### Monthly Summary: August 2018

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	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments on Exceedences	
23	Effluent Discharge Point	13/09/18	Arsenic	mg/L	Daily	31	0.01	0.02		0.05	No		
		13/09/18	Chromium (hexavalent)	mg/L	Daily	31	<0.1	0.03	0.05	0.2	No		
		13/09/18	Nitrogen (Total)	mg/L	Daily	31	128	571	1500	2000	No		
		13/09/18	Oil and Grease	mg/L	Twice per Week	9	0.1	1.3		10	No		
		13/09/18	pH	pH	Continuous	31	7.4	9.0		6.2-9.5	No		
		13/09/18	Temperature	Degrees Celsius	Continuous	31	23.3	36.7		43	No		
		13/09/18	Total suspended solids	mg/L	Daily	31	9	30		50	No		
		13/09/18	Zinc	mg/L	Daily	31	<0.1	0.2		5	No		
		13/09/18	Flow	kL/day	Daily	31	1671	2329		4500	No		
		24	Effluent Diversion Pond	13/09/18				No discharge					





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**Concentration Limit:** See licence L3.6

### Monthly Summary: July 2018

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	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments on Exceedences	
23	Effluent Discharge Point	6/08/18	Arsenic	mg/L	Daily	31	0.01	0.03		0.05	No		
		6/08/18	Chromium (hexavalent)	mg/L	Daily	31	<0.1	0.04	0.05	0.2	No		
		6/08/18	Nitrogen (Total)	mg/L	Daily	31	119	398	1500	2000	No		
		6/08/18	Oil and Grease	mg/L	Twice per Week	9	0.1	1.6		10	No		
		6/08/18	pH	pH	Continuous	31	7.2	8.8		6.2-9.5	No		
		6/08/18	Temperature	Degrees Celsius	Continuous	31	20.1	36.7		43	No		
		6/08/18	Total suspended solids	mg/L	Daily	31	6	25		50	No		
		6/08/18	Zinc	mg/L	Daily	31	<0.1	0.1		5	No		
		6/08/18	Flow	kL/day	Daily	31	1369	2035		4500	No		
		24	Effluent Diversion Pond	6/08/18				No discharge					



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**Concentration Limit:** See licence L3.6

**Monthly Summary: June 2018**

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	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments on Exceedences
23	Effluent Discharge Point	4/07/18	Arsenic	mg/L	Daily	30	0.01	0.03		0.05	No	
		4/07/18	Chromium (hexavalent)	mg/L	Daily	30	<0.1	0.05	0.05	0.2	No	
		4/07/18	Nitrogen (Total)	mg/L	Daily	30	84	339	1500	2000	No	
		4/07/18	Oil and Grease	mg/L	Twice per Week	8	<0.1	0.3		10	No	
		4/07/18	pH	pH	Continuous	30	7.1	8.7		6.2-9.5	No	
		4/07/18	Temperature	Degrees Celsius	Continuous	30	16.4	37.7		43	No	
		4/07/18	Total suspended solids	mg/L	Daily	30	7	36		50	No	
		4/07/18	Zinc	mg/L	Daily	30	<0.1	0.3		5	No	
		4/07/18	Flow	kL/day	Daily	30	1397	2857		4500	No	
		24	Effluent Diversion Pond	4/07/18				No discharge				



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**Concentration Limit:** See licence L3.6

### Monthly Summary: May 2018

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	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments on Exceedences
23	Effluent Discharge Point	14/06/18	Arsenic	mg/L	Daily	31	<0.01	0.02		0.05	No	
		14/06/18	Chromium (hexavalent)	mg/L	Daily	31	<0.01	0.03	0.05	0.2	No	
		14/06/18	Nitrogen (Total)	mg/L	Daily	31	64	290	1500	2000	No	
		14/06/18	Oil and Grease	mg/L	Twice per Week	10	0.1	0.7		10	No	
		14/06/18	pH	pH	Continuous	31	7.0	9.1		6.2-9.5	No	
		14/06/18	Temperature	Degrees Celsius	Continuous	31	27.3	37.0		43	No	
		14/06/18	Total suspended solids	mg/L	Daily	31	9	36		50	No	
		14/06/18	Zinc	mg/L	Daily	31	<0.1	0.1		5	No	
		14/06/18	Flow	kL/day	Daily	31	1797	2637		4500	No	
		24	Effluent Diversion Pond	14/06/18				No discharge				



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### Monthly Summary: April 2018

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	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments on Exceedences
23	Effluent Discharge Point	8/05/18	Arsenic	mg/L	Daily	30	<0.01	0.03		0.05	No	
		8/05/18	Chromium (hexavalent)	mg/L	Daily	30	<0.01	0.03	0.05	0.2	No	
		8/05/18	Nitrogen (Total)	mg/L	Daily	30	102	289	1500	2000	No	
		8/05/18	Oil and Grease	mg/L	Twice per Week	10	0.3	6.4		10	No	
		8/05/18	pH	pH	Continuous	30	6.4	9.0		6.2-9.5	No	
		8/05/18	Temperature	Degrees Celsius	Continuous	30	15.2	41.7		43	No	
		8/05/18	Total suspended solids	mg/L	Daily	30	11	34		50	No	
		8/05/18	Zinc	mg/L	Daily	30	<0.1	0.2		5	No	
		8/05/18	Flow	kL/day	Daily	30	1437	3005		4500	No	
		24	Effluent Diversion Pond	8/05/18				No discharge				