



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
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		
		7/01/19	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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Monthly Summary: November 2018

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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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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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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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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	Exceedance ? (Yes/No)	Comments on Exceedances
23	Effluent Discharge Point	13/09/18	Arsenic	mg/L	Daily	31	0.01	0.02	0.05	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	
24	Effluent Diversion Pond	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	K/day	Daily	31	1671	2329		4500	No	
						No discharge						



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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	30 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	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	10	No	
		6/08/18	pH	pH	Continuous	31	7.2	8.8	6.2-9.5	6.2-9.5	No	
		6/08/18	Temperature	Degrees Celsius	Continuous	31	20.1	36.7	43	43	No	
		6/08/18	Total suspended solids	mg/L	Daily	31	6	25	50	50	No	
		6/08/18	Zinc	mg/L	Daily	31	<0.1	0.1	5	5	No	
		6/08/18	Flow	kL/day	Daily	31	1989	2035	4500	4500	No	
		24	Effluent Diversion Pond	6/08/18				No discharge				



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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	Exceedance ? (Yes/No)	Comments on Exceedances
23	Effluent Discharge Point	4/07/18	Arsenic	mg/L	Daily	30	0.01	0.03	0.05	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	10	No	
		4/07/18	pH	pH	Continuous	30	7.1	8.7	6.2-9.5	6.2-9.5	No	
		4/07/18	Temperature	Degrees Celsius	Continuous	30	16.4	37.7	43	43	No	
		4/07/18	Total suspended solids	mg/L	Daily	30	7	36	50	50	No	
24	Effluent Diversion Pond	4/07/18	Zinc	mg/L	Daily	30	<0.1	0.3	5	5	No	
		4/07/18	Flow	K/day	Daily	30	1997	2857	4500	4500	No	
		4/07/18				No discharge						



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Monthly Summary: May 2018

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23	Effluent Discharge Point	14/06/18	Arsenic	mg/L	Daily	31	<0.01	0.02	0.05	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	10	No	
		14/06/18	pH	pH	Continuous	31	7.0	9.1	6.2-9.5	6.2-9.5	No	
		14/06/18	Temperature	Degrees Celsius	Continuous	31	27.3	37.0	43	43	No	
24	Effluent Diversion Pond	14/06/18	Total suspended solids	mg/L	Daily	31	9	36	50	50	No	
		14/06/18	Zinc	mg/L	Daily	31	<0.1	0.1	5	5	No	
		14/06/18	Flow	K/day	Daily	31	1797	2637	4500	4500	No	
		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	Exceedance ? (Yes/No)	Comments on Exceedances
23	Effluent Discharge Point	8/05/18	Arsenic	mg/L	Daily	30	<0.01	0.03	0.05	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	10	No	
		8/05/18	pH	pH	Continuous	30	6.4	9.0	6.2-9.5	6.2-9.5	No	
		8/05/18	Temperature	Degrees Celsius	Continuous	30	15.2	41.7	43	43	No	
24	Effluent Diversion Pond	8/05/18	Total suspended solids	mg/L	Daily	30	11	34	50	50	No	
		8/05/18	Zinc	mg/L	Daily	30	<0.1	0.2	5	5	No	
		8/05/18	Flow	K/day	Daily	30	1437	3005	4500	4500	No	
						No discharge						