



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: March 2017

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	7/04/17	Arsenic	mg/L	Daily	31	<0.01	0.25		0.05	Yes	
		7/04/17	Chromium (hexavalent)	mg/L	Daily	31	0.01	0.9	0.05	0.2	No	
		7/04/17	Nitrogen (Total)	mg/L	Daily	31	178	426	1500	2000	No	
		7/04/17	Oil and Grease	mg/L	Twice per Week	10	0.1	0.5		10	No	
		7/04/17	pH	pH	Continuous	31	7.0	9.0		6.2-9.5	No	
		7/04/17	Temperature	Degrees Celsius	Continuous	31	18.9	39.5		43	No	
		7/04/17	Total suspended solids	mg/L	Daily	31	7	1500		50	Yes	
		7/04/17	Zinc	mg/L	Daily	31	<0.1	8.5		5	Yes	
		7/04/17	Flow	kL/day	Daily	31	561	2249		4500	No	
		24	Effluent Diversion Pond	7/04/17				No discharge				



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Monthly Summary: February 2017

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	6/03/17	Arsenic	mg/L	Daily	28	<0.01	0.03		0.05	No	
		6/03/17	Chromium (hexavalent)	mg/L	Daily	28	<0.01	0.04	0.05	0.2	No	
	6/03/17	Nitrogen (Total)	mg/L	Daily	28	102	397	1500	2000	No		
	6/03/17	Oil and Grease	mg/L	Twice per Week	7	0.2	0.4		10	No		
	6/03/17	pH	pH	Continuous	28	6.8	8.7		6.2-9.5	No		
	6/03/17	Temperature	Degrees Celsius	Continuous	28	26.9	41.7		43	No		
	6/03/17	Total suspended solids	mg/L	Daily	28	5	49		50	No		
	6/03/17	Zinc	mg/L	Daily	28	0.1	0.4		5	No		
	6/03/17	Flow	kL/day	Daily	28	1188	2480		4500	No		
	24	Effluent Diversion Pond	6/03/17				No discharge					



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Monthly Summary: December 2016

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23	Effluent Discharge Point	5/01/17	Arsenic	mg/L	Daily	31	0.1	0.20		0.05	No		
		5/01/17	Chromium (hexavalent)	mg/L	Daily	31	<0.01	<0.01	0.05	0.2	No		
		5/01/17	Nitrogen (Total)	mg/L	Daily	31	92	283	1500	2000	No		
		5/01/17	Oil and Grease	mg/L	Twice per Week	9	0.2	0.5		10	No		
		5/01/17	pH	pH	Continuous	31	7.0	9.3		6.2-9.5	No		
		5/01/17	Temperature	Degrees Celsius	Continuous	31	31.3	42.0		43	No		
		5/01/17	Total suspended solids	mg/L	Daily	31	5	13		50	No		
		5/01/17	Zinc	mg/L	Daily	31	<0.1	0.2		5	No		
		5/01/17	Flow	kL/day	Daily	31	1454	2852		4500	No		
		24	Effluent Diversion Pond	5/01/17				No discharge					



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Monthly Summary: November 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	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments on Exceedences
23	Effluent Discharge Point	2/12/16	Arsenic	mg/L	Daily	30	0.01	0.02		0.05	No	
		2/12/16	Chromium (hexavalent)	mg/L	Daily	30	<0.01	0.02	0.05	0.2	No	
		2/12/16	Nitrogen (Total)	mg/L	Daily	30	54	181	1500	2000	No	
		2/12/16	Oil and Grease	mg/L	Twice per Week	9	0.2	0.4		10	No	
		2/12/16	pH	pH	Continuous	30	6.9	9.1		6.2-9.5	No	
		2/12/16	Temperature	Degrees Celsius	Continuous	30	28.5	42.7		43	No	
		2/12/16	Total suspended solids	mg/L	Daily	30	6	16		50	No	
		2/12/16	Zinc	mg/L	Daily	30	<0.1	0.1		5	No	
		2/12/16	Flow	kL/day	Daily	30	1713	2746		4500	No	
		24	Effluent Diversion Pond	2/12/16				No discharge				



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Concentration Limit: See licence L3.6

Monthly Summary: October 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	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments on Exceedences
23	Effluent Discharge Point	4/11/16	Arsenic	mg/L	Daily	31	<0.01	0.02		0.05	No	
		4/11/16	Chromium (hexavalent)	mg/L	Daily	31	<0.01	<0.01	0.05	0.2	No	
		4/11/16	Nitrogen (Total)	mg/L	Daily	31	66	230	1500	2000	No	
		4/11/16	Oil and Grease	mg/L	Twice per Week	8	0.1	0.3		10	No	
		4/11/16	pH	pH	Continuous	31	6.8	8.8		6.2-9.5	No	
		4/11/16	Temperature	Degrees Celsius	Continuous	31	26.7	40.9		43	No	
		4/11/16	Total suspended solids	mg/L	Daily	31	5	36		50	No	
		4/11/16	Zinc	mg/L	Daily	31	<0.1	0.1		5	No	
		4/11/16	Flow	kL/day	Daily	31	1851	3318		4500	No	
		24	Effluent Diversion Pond	4/11/16				No discharge				



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Monthly Summary: September 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	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments on Exceedences	
23	Effluent Discharge Point	4/10/16	Arsenic	mg/L	Daily	30	0.01	0.02		0.05	No		
		4/10/16	Chromium (hexavalent)	mg/L	Daily	30	<0.01	<0.01	0.05	0.2	No		
		4/10/16	Nitrogen (Total)	mg/L	Daily	30	74	331	1500	2000	No		
		4/10/16	Oil and Grease	mg/L	Twice per Week	9	0.1	0.2		10	No		
		4/10/16	pH	pH	Continuous	30	6.9	8.9		6.2-9.5	No		
		4/10/16	Temperature	Degrees Celsius	Continuous	30	17.6	41.5		43	No		
		4/10/16	Total suspended solids	mg/L	Daily	30	4	14		50	No		
		4/10/16	Zinc	mg/L	Daily	30	<0.1	0.1		5	No		
		4/10/16	Flow	kL/day	Daily	30	1446	2532		4500	No		
		24	Effluent Diversion Pond	4/10/16				No discharge					



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Monthly Summary: August 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	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments on Exceedences
23	Effluent Discharge Point	2/09/16	Arsenic	mg/L	Daily	31	0.01	0.02		0.05	No	
		2/09/16	Chromium (hexavalent)	mg/L	Daily	31	<0.01	<0.01	0.05	0.2	No	
		2/09/16	Nitrogen (Total)	mg/L	Daily	31	52	410	1500	2000	No	
		2/09/16	Oil and Grease	mg/L	Twice per Week	9	0.2	0.4		10	No	
		2/09/16	pH	pH	Continuous	31	6.9	8.7		6.2-9.5	No	
		2/09/16	Temperature	Degrees Celsius	Continuous	31	28.4	39.3		43	No	
		2/09/16	Total suspended solids	mg/L	Daily	31	5	20		50	No	
		2/09/16	Zinc	mg/L	Daily	31	<0.1	0.2		5	No	
		2/09/16	Flow	kL/day	Daily	31	1652	2317		4500	No	
		24	Effluent Diversion Pond	2/09/16				No discharge				



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Monthly Summary: July 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	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments on Exceedences
23	Effluent Discharge Point	5/08/16	Arsenic	mg/L	Daily	31	<0.01	0.03		0.05	No	
		5/08/16	Chromium (hexavalent)	mg/L	Daily	31	<0.01	0.01	0.05	0.2	No	
		5/08/16	Nitrogen (Total)	mg/L	Daily	31	29	199	1500	2000	No	
		5/08/16	Oil and Grease	mg/L	Twice per Week	8	0.1	0.2		10	No	
		5/08/16	pH	pH	Continuous	31	7.2	8.7		6.2-9.5	No	
		5/08/16	Temperature	Degrees Celsius	Continuous	31	28.5	41.2		43	No	
		5/08/16	Total suspended solids	mg/L	Daily	31	5	39		50	Yes	
		5/08/16	Zinc	mg/L	Daily	31	<0.1	0.2		5	No	
		5/08/16	Flow	kL/day	Daily	31	1663	2911		4500	No	
		24	Effluent Diversion Pond	5/08/16				No discharge				



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Monthly Summary: June 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	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments on Exceedences
23	Effluent Discharge Point	4/07/16	Arsenic	mg/L	Daily	30	<0.01	0.03		0.05	No	
		4/07/16	Chromium (hexavalent)	mg/L	Daily	30	<0.01	<0.01	0.05	0.2	No	
		4/07/16	Nitrogen (Total)	mg/L	Daily	30	88	227	1500	2000	No	
		4/07/16	Oil and Grease	mg/L	Twice per Week	8	0.2	0.7		10	No	
		4/07/16	pH	pH	Continuous	30	6.8	9.1		6.2-9.5	No	
		4/07/16	Temperature	Degrees Celsius	Continuous	30	24.9	39.5		43	No	
		4/07/16	Total suspended solids	mg/L	Daily	30	4	12		50	Yes	
		4/07/16	Zinc	mg/L	Daily	30	0.1	0.2		5	No	
		4/07/16	Flow	kL/day	Daily	30	1489	2731		4500	No	
		24	Effluent Diversion Pond	4/07/16				No discharge				



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Monthly Summary: May 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	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments on Exceedences
23	Effluent Discharge Point	6/06/16	Arsenic	mg/L	Daily	31	<0.01	0.04		0.05	No	
		6/06/16	Chromium (hexavalent)	mg/L	Daily	31	<0.01	<0.01	0.05	0.2	No	
		6/06/16	Nitrogen (Total)	mg/L	Daily	31	81	231	1500	2000	No	
		6/06/16	Oil and Grease	mg/L	Twice per Week	9	0.1	0.3		10	No	
		6/06/16	pH	pH	Continuous	31	6.7	8.8		6.2-9.5	No	
		6/06/16	Temperature	Degrees Celsius	Continuous	31	27.3	38.9		43	No	
		6/06/16	Total suspended solids	mg/L	Daily	31	6	136		50	Yes	
		6/06/16	Zinc	mg/L	Daily	31	<0.1	0.3		5	No	
		6/06/16	Flow	kL/day	Daily	31	1948	2726		4500	No	
		24	Effluent Diversion Pond	6/06/16				No discharge				



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Monthly Summary: April 2016

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23	Effluent Discharge Point	4/05/16	Arsenic	mg/L	Daily	30	<0.01	0.03		0.05	No		
		4/05/16	Chromium (hexavalent)	mg/L	Daily	30	<0.01	0.01	0.05	0.2	No		
		4/05/16	Nitrogen (Total)	mg/L	Daily	30	78	273	1500	2000	No		
		4/05/16	Oil and Grease	mg/L	Twice per Week	8	0.1	0.7		10	No		
		4/05/16	pH	pH	Continuous	30	6.8	9.4		6.2-9.5	No		
		4/05/16	Temperature	Degrees Celsius	Continuous	30	26.4	38.3		43	No		
		4/05/16	Total suspended solids	mg/L	Daily	30	5	14		50	No		
		4/05/16	Zinc	mg/L	Daily	30	<0.1	0.3		5	No		
		4/05/16	Flow	kL/day	Daily	30	1811	2845		4500	No		
		24	Effluent Diversion Pond	4/05/16				No discharge					