



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 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	8/04/16	Arsenic	mg/L	Daily	31	0.1	0.2		0.05	No	
		8/04/16	Chromium (hexavalent)	mg/L	Daily	31	<0.01	<0.01	0.05	0.2	No	
		8/04/16	Nitrogen (Total)	mg/L	Daily	31	80	390	1500	2000	No	
		8/04/16	Oil and Grease	mg/L	Twice per Week	10	0.1	0.7		10	No	
		8/04/16	pH	pH	Continuous	31	7.5	9.3		6.2-9.5	No	
		8/04/16	Temperature	Degrees Celsius	Continuous	31	26.3	46.5		43	Yes	
		8/04/16	Total suspended solids	mg/L	Daily	31	6	13		50	No	
		8/04/16	Zinc	mg/L	Daily	31	<0.1	0.2		5	No	
		8/04/16	Flow	kL/day	Daily	31	1740	2845		4500	No	
		24	Effluent Diversion Pond	8/04/16				No discharge				



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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	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments on Exceedences
23	Effluent Discharge Point	4/03/16	Arsenic	mg/L	Daily	29	0.1	0.13		0.05	Yes	
		4/03/16	Chromium (hexavalent)	mg/L	Daily	29	<0.01	0.01	0.05	0.2	No	
		4/03/16	Nitrogen (Total)	mg/L	Daily	29	84	366	1500	2000	No	
		4/03/16	Oil and Grease	mg/L	Twice per Week	9	0.2	0.5		10	No	
		4/03/16	pH	pH	Continuous	29	7.3	9.4		6.2-9.5	No	
		4/03/16	Temperature	Degrees Celsius	Continuous	29	32.9	41.0		43	No	
		4/03/16	Total suspended solids	mg/L	Daily	29	6	740		50	Yes	
		4/03/16	Zinc	mg/L	Daily	29	<0.1	3.5		5	No	
		4/03/16	Flow	kL/day	Daily	29	1929	2881		4500	No	
		24	Effluent Diversion Pond	4/03/16				No discharge				



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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	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments on Exceedences
23	Effluent Discharge Point	5/02/16	Arsenic	mg/L	Daily	31	0.01	0.04		0.05	No	
		5/02/16	Chromium (hexavalent)	mg/L	Daily	31	<0.01	<0.01	0.05	0.2	No	
		5/02/16	Nitrogen (Total)	mg/L	Daily	31	74	327	1500	2000	No	
		5/02/16	Oil and Grease	mg/L	Twice per Week	8	0.2	0.7		10	No	
		5/02/16	pH	pH	Continuous	31	6.7	9.2		6.2-9.5	No	
		5/02/16	Temperature	Degrees Celsius	Continuous	31	23.7	41.3		43	No	
		5/02/16	Total suspended solids	mg/L	Daily	31	5	410		50	Yes	
		5/02/16	Zinc	mg/L	Daily	31	<0.1	0.4		5	No	
		5/02/16	Flow	kL/day	Daily	31	1637	3549		4500	No	
		24	Effluent Diversion Pond	5/02/16				No discharge				



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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	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments on Exceedences	
23	Effluent Discharge Point	4/01/16	Arsenic	mg/L	Daily	31	0.01	0.03		0.05	No		
		4/01/16	Chromium (hexavalent)	mg/L	Daily	31	<0.01	<0.01	0.05	0.2	No		
		4/01/16	Nitrogen (Total)	mg/L	Daily	31	88	231	1500	2000	No		
		4/01/16	Oil and Grease	mg/L	Twice per Week	9	0.2	0.3		10	No		
		4/01/16	pH	pH	Continuous	31	7.1	9.0		6.2-9.5	No		
		4/01/16	Temperature	Degrees Celsius	Continuous	31	28.7	47.1		43	Yes		
		4/01/16	Total suspended solids	mg/L	Daily	31	4	12		50	No		
		4/01/16	Zinc	mg/L	Daily	31	<0.1	0.2		5	No		
		4/01/16	Flow	kL/day	Daily	31	1743	3241		4500	No		
		24	Effluent Diversion Pond	4/01/16				No discharge					



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Monthly Summary: November 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	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments on Exceedences
23	Effluent Discharge Point	2/12/15	Arsenic	mg/L	Daily	30	0.02	0.03		0.05	No	
		2/12/15	Chromium (hexavalent)	mg/L	Daily	30	<0.01	0.01	0.05	0.2	No	
		2/12/15	Nitrogen (Total)	mg/L	Daily	30	81	440	1500	2000	No	
		2/12/15	Oil and Grease	mg/L	Twice per Week	8	0.1	0.9		10	No	
		2/12/15	pH	pH	Continuous	30	7.3	9.4		6.2-9.5	No	
		2/12/15	Temperature	Degrees Celsius	Continuous	30	30.4	45.2		43	No	
		2/12/15	Total suspended solids	mg/L	Daily	30	6	47		50	Yes	
		2/12/15	Zinc	mg/L	Daily	30	0.1	0.2		5	No	
		2/12/15	Flow	kL/day	Daily	30	1492	2369		4500	No	
		24	Effluent Diversion Pond	2/12/15				No discharge				



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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	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments on Exceedences
23	Effluent Discharge Point	9/11/15	Arsenic	mg/L	Daily	31	0.02	0.03		0.05	No	
		9/11/15	Chromium (hexavalent)	mg/L	Daily	31	<0.01	<0.01	0.05	0.2	No	
		9/11/15	Nitrogen (Total)	mg/L	Daily	31	135	243	1500	2000	No	
		9/11/15	Oil and Grease	mg/L	Twice per Week	8	0.1	0.3		10	No	
		9/11/15	pH	pH	Continuous	31	7.0	8.7		6.2-9.5	No	
		9/11/15	Temperature	Degrees Celsius	Continuous	31	30.0	41.4		43	No	
		9/11/15	Total suspended solids	mg/L	Daily	31	4	38		50	No	
		9/11/15	Zinc	mg/L	Daily	31	0.1	0.2		5	No	
		9/11/15	Flow	kL/day	Daily	31	1506	2389		4500	No	
		24	Effluent Diversion Pond	9/11/15				No discharge				



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Monthly Summary: September 2015

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23	Effluent Discharge Point	1/10/15	Arsenic	mg/L	Daily	30	0.02	0.02		0.05	No		
		1/10/15	Chromium (hexavalent)	mg/L	Daily	30	<0.01	<0.01	0.05	0.2	No		
		1/10/15	Nitrogen (Total)	mg/L	Daily	30	84	230	1500	2000	No		
		1/10/15	Oil and Grease	mg/L	Twice per Week	9	0.1	0.5		10	No		
		1/10/15	pH	pH	Continuous	30	6.4	8.6		6.2-9.5	No		
		1/10/15	Temperature	Degrees Celsius	Continuous	30	20.1	41.2		43	No		
		1/10/15	Total suspended solids	mg/L	Daily	30	6	19		50	No		
		1/10/15	Zinc	mg/L	Daily	30	0.1	0.3		5	No		
		1/10/15	Flow	kL/day	Daily	30	1626	2590		4500	No		
		24	Effluent Diversion Pond	1/10/15				No discharge					



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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	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments on Exceedences
23	Effluent Discharge Point	2/09/15	Arsenic	mg/L	Daily	31	0.01	0.02		0.05	No	
		2/09/15	Chromium (hexavalent)	mg/L	Daily	31	<0.01	<0.01	0.05	0.2	No	
	2/09/15	Nitrogen (Total)	mg/L	Daily	31	47	414	1500	2000	No		
	2/09/15	Oil and Grease	mg/L	Twice per Week	8	0.1	0.8		10	No		
	2/09/15	pH	pH	Continuous	31	6.6	8.7		6.2-9.5	No		
	2/09/15	Temperature	Degrees Celsius	Continuous	31	23.3	37.4		43	No		
	2/09/15	Total suspended solids	mg/L	Daily	31	4	19		50	No		
	2/09/15	Zinc	mg/L	Daily	31	0.1	0.4		5	No		
	2/09/15	Flow	kL/day	Daily	31	1651	2526		4500	No		
	24	Effluent Diversion Pond	2/09/15				No discharge					



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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	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments on Exceedences	
23	Effluent Discharge Point	7/08/15	Arsenic	mg/L	Daily	31	<0.01	0.03		0.05	No		
		7/08/15	Chromium (hexavalent)	mg/L	Daily	31	<0.01	<0.01	0.05	0.2	No		
		7/08/15	Nitrogen (Total)	mg/L	Daily	31	116		1500	2000	No		
		7/08/15	Oil and Grease	mg/L	Twice per Week	8	0.3	0.8		10	No		
		7/08/15	pH	pH	Continuous	31	6.4	8.7		6.2-9.5	No		
		7/08/15	Temperature	Degrees Celsius	Continuous	31	22.9	36.6		43	No		
		7/08/15	Total suspended solids	mg/L	Daily	31	6	17		50	No		
		7/08/15	Zinc	mg/L	Daily	31	0.2	0.4		5	No		
		7/08/15	Flow	kL/day	Daily	31	1936	2855		4500	No		
		24	Effluent Diversion Pond	7/08/15				No discharge					



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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	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments on Exceedences	
23	Effluent Discharge Point	6/07/15	Arsenic	mg/L	Daily	30	<0.01	0.02		0.05	No		
		6/07/15	Chromium (hexavalent)	mg/L	Daily	30	<0.01	<0.01	0.05	0.2	No		
		6/07/15	Nitrogen (Total)	mg/L	Daily	30	82	259	1500	2000	No		
		6/07/15	Oil and Grease	mg/L	Twice per Week	8	0.2	0.9		10	No		
		6/07/15	pH	pH	Continuous	30	6.6	9.0		6.2-9.5	No		
		6/07/15	Temperature	Degrees Celsius	Continuous	30	19.9	40.3		43	No		
		6/07/15	Total suspended solids	mg/L	Daily	30	6	17		50	No		
		6/07/15	Zinc	mg/L	Daily	30	0.2	0.4		5	No		
		6/07/15	Flow	kL/day	Daily	30	1910	3574		4500	No		
		24	Effluent Diversion Pond	6/07/15				No discharge					



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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	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments on Exceedences
23	Effluent Discharge Point	1/06/15	Arsenic	mg/L	Daily	31	<0.01	0.02		0.05	No	
		1/06/15	Chromium (hexavalent)	mg/L	Daily	31	<0.01	<0.01	0.05	0.2	No	
		1/06/15	Nitrogen (Total)	mg/L	Daily	31	79	205	1500	2000	No	
		1/06/15	Oil and Grease	mg/L	Twice per Week	8	0.1	0.9		10	No	
		1/06/15	pH	pH	Continuous	31	6.6	8.9		6.2-9.5	No	
		1/06/15	Temperature	Degrees Celsius	Continuous	31	15.0	46.0		43	Yes	
		1/06/15	Total suspended solids	mg/L	Daily	31	5	14		50	No	
		1/06/15	Zinc	mg/L	Daily	31	0.2	0.5		5	No	
		1/06/15	Flow	kL/day	Daily	31	1743	3319		4500	No	
		24	Effluent Diversion Pond	1/06/15				No discharge				



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23	Effluent Discharge Point	11/05/15	Arsenic	mg/L	Daily	30	<0.01	0.02		0.05	No	
		11/05/15	Chromium (hexavalent)	mg/L	Daily	30	<0.01	<0.01	0.05	0.2	No	
		11/05/15	Nitrogen (Total)	mg/L	Daily	30	103	451	1500	2000	No	
		11/05/15	Oil and Grease	mg/L	Twice per Week	8	0.3	1.1		10	No	
		11/05/15	pH	pH	Continuous	30	6.5	8.7		6.2-9.5	No	
		11/05/15	Temperature	Degrees Celsius	Continuous	30	19.9	40.3		43	No	
		11/05/15	Total suspended solids	mg/L	Daily	30	5	24		50	No	
		11/05/15	Zinc	mg/L	Daily	30	0.3	0.5		5	No	
		11/05/15	Flow	kL/day	Daily	30	2297	3659		4500	No	
		24	Effluent Diversion Pond	11/05/15				No discharge				