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/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 (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 2013

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	18/04/13	Arsenic	mg/L	Daily	31	<0.01	0.03		0.05	No	
		18/04/13	Chromium (hexa-valent)	mg/L	Daily	31	<0.01	0.01	0.05	0.2	No	
		18/04/13	Nitrogen (Total)	mg/L	Daily	31	58	628	1500	2000	No	
		18/04/13	Oil and Grease	mg/L	Twice per Week	8	0.4	2.3		10	No	
		18/04/13	pH	pH	Continuous	31	6.2	9.1		6.2-9.5	No	
		18/04/13	Temper-ature	degrees Celsius	Continuous	31	19.9	44.5		43	Yes	
		18/04/13	Total suspend-ed solids	mg/L	Daily	31	4	42		50	No	

Orica Kooragang Island Monitoring Points 23-24

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Concentration Limit: See licence L3.6

Monthly Summary: February 2013

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	2/04/13	Arsenic	mg/L	Daily	28	0.01	0.02		0.05	No	
		2/04/13	Chromium (hexa-valent)	mg/L	Daily	28	<0.01	0.01	0.05	0.2	No	
		2/04/13	Nitrogen (Total)	mg/L	Daily	28	48	707	1500	2000	No	
		2/04/13	Oil and Grease	mg/L	Twice per Week	8	0.4	1.1		10	No	
		2/04/13	pH	pH	Continuous	28	7	8.8		6.2-9.5	No	
		2/04/13	Temper-ature	degrees Celsius	Continuous	28	30.8	43.9		43	Yes	
		2/04/13	Total suspend-ed solids	mg/L	Daily	28	5	19		50	No	
		2/04/13	Zinc	mg/L	Daily	28	0.2	0.45		5	No	
		2/04/13	Flow	kL/day	Daily	28	2490	3553		4500	No	
24	Effluent Diversion Pond											No discharge

Orica Kooragang Island Monitoring Points 23-24

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Concentration Limit: See licence L3.6

Monthly Summary: January 2013

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	1/02/13	Arsenic	mg/L	Daily	31	0.01	0.03		0.05	No	
		1/02/13	Chromium (hexa-valent)	mg/L	Daily	31	<0.01	0.01	0.05	0.2	No	
		1/02/13	Nitrogen (Total)	mg/L	Daily	31	68	337	1500	2000	No	
		1/02/13	Oil and Grease	mg/L	Twice per Week	10	0.15	1.6		10	No	
		1/02/13	pH	pH	Continuous	31	7	8.5		6.2-9.5	No	
		1/02/13	Temper-ature	degrees Celsius	Continuous	31	31	44.7		43	Yes	
		1/02/13	Total suspend-ed solids	mg/L	Daily	31	6	14		50	No	
		1/02/13	Zinc	mg/L	Daily	31	0.2	0.4		5	No	
		1/02/13	Flow	kL/day	Daily	31	2485	3999		4500	No	
24	Effluent Diversion Pond											No discharge

Orica Kooragang Island Monitoring Points 23-24

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Concentration Limit: See licence L3.6

Monthly Summary: December 2012

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	9/01/13	Arsenic	mg/L	Daily	31	<0.01	0.02		0.05	No	
		9/01/13	Chromium (hexa-valent)	mg/L	Daily	31	<0.01	0.02	0.05	0.2	No	
		9/01/13	Nitrogen (Total)	mg/L	Daily	31	53	489	1500	2000	No	
		9/01/13	Oil and Grease	mg/L	Twice per Week	8	0.55	1.2		10	No	
		9/01/13	pH	pH	Continuous	31	6.7	9		6.2-9.5	No	
		9/01/13	Temper-ature	degrees Celsius	Continuous	31	31.1	45		43	Yes	
		9/01/13	Total suspend-ed solids	mg/L	Daily	31	6	18		50	No	
		9/01/13	Zinc	mg/L	Daily	31	0.2	0.9		5	No	
		9/01/13	Flow	kL/day	Daily	31	2458	3716		4500	No	
24	Effluent Diversion Pond											No discharge

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Concentration Limit: See licence L3.6

Monthly Summary: November 2012

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	5/12/12	Arsenic	mg/L	Daily	30	0.01	0.02		0.05	No	
		5/12/12	Chromium (hexa-valent)	mg/L	Daily	30	<0.01	0.02	0.05	0.2	No	
		5/12/12	Nitrogen (Total)	mg/L	Daily	30	60	256	1500	2000	No	
		5/12/12	Oil and Grease	mg/L	Twice per Week	9	0.15	3.6		10	No	
		5/12/12	pH	pH	Continuous	30	6.4	8.9		6.2-9.5	No	
		5/12/12	Temper-ature	degrees Celsius	Continuous	30	19.0	46.9		43	Yes	
		5/12/12	Total suspend-ed solids	mg/L	Daily	30	5	30		50	No	
		5/12/12	Zinc	mg/L	Daily	30	0.2	0.74		5	No	
		5/12/12	Flow	kL/day	Daily	30	1596	3165		4500	No	
24	Effluent Diversion Pond											No discharge

Orica Kooragang Island Monitoring Points 23-24

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Concentration Limit: See licence L3.6

Monthly Summary: October 2012

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	7/11/12	Arsenic	mg/L	Daily	31	<0.01	0.03		0.05	No	
		7/11/12	Chromium (hexa-valent)	mg/L	Daily	31	<0.01	0.02	0.05	0.2	No	
		7/11/12	Nitrogen (Total)	mg/L	Daily	31	92	658	1500	2000	No	
		7/11/12	Oil and Grease	mg/L	Twice per Week	8	0.3	1		10	No	
		7/11/12	pH	pH	Continuous	31	6.3	9.3		6.2-9.5	No	
		7/11/12	Temper-ature	degrees Celsius	Continuous	31	22.6	45.9		43	Yes	
		7/11/12	Total suspend-ed solids	mg/L	Daily	31	4	22		50	No	
		7/11/12	Zinc	mg/L	Daily	31	0.2	3.2		5	No	
		7/11/12	Flow	kL/day	Daily	31	1008	2824		4500	No	
24	Effluent Diversion Pond											No discharge

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Concentration Limit: See licence L3.6

Monthly Summary: September 2012

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	16/10/12	Arsenic	mg/L	Daily	30	<0.01	0.02		0.05	No	
		16/10/12	Chromium (hexa-valent)	mg/L	Daily	30	<0.01	0.01	0.05	0.2	No	
		16/10/12	Nitrogen (Total)	mg/L	Daily	30	57	358	1500	2000	No	
		16/10/12	Oil and Grease	mg/L	Twice per Week	8	0.2	0.7		10	No	
		16/10/12	pH	pH	Continuous	30	6.9	9.1		6.2-9.5	No	
		16/10/12	Temper-ature	degrees Celsius	Continuous	30	27.7	42.3		43	No	
		16/10/12	Total suspend-ed solids	mg/L	Daily	30	6	19		50	No	
		16/10/12	Zinc	mg/L	Daily	30	0.2	0.3		5	No	
		16/10/12	Flow	kL/day	Daily	30	2284	2824		4500	No	
24	Effluent Diversion Pond											No discharge

Orica Kooragang Island Monitoring Points 23-24

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Concentration Limit: See licence L3.6

Monthly Summary: August 2012

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	4/09/12	Arsenic	mg/L	Daily	31	<0.01	0.03		0.05	No	
		4/09/12	Chromium (hexa-valent)	mg/L	Daily	31	<0.01	0.01	0.05	0.2	No	
		4/09/12	Nitrogen (Total)	mg/L	Daily	31	108	413	1500	2000	No	
		4/09/12	Oil and Grease	mg/L	Twice per Week	10	0.5	1.9		10	No	
		4/09/12	pH	pH	Continuous	31	6.7	9		6.2-9.5	No	
		4/09/12	Temper-ature	degrees Celsius	Continuous	31	24.8	42.1		43	No	
		4/09/12	Total suspend-ed solids	mg/L	Daily	31	1	22		50	No	
		4/09/12	Zinc	mg/L	Daily	31	0.2	0.7		5	No	
		4/09/12	Flow	kL/day	Daily	31	2016	2840		4500	No	
24	Effluent Diversion Pond											No discharge

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Concentration Limit: See licence L3.6

Monthly Summary: July 2012

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	7/08/12	Arsenic	mg/L	Daily	31	0.01	0.02		0.05	No	
		7/08/12	Chromium (hexa-valent)	mg/L	Daily	31	<0.01	0.01	0.05	0.2	No	
		7/08/12	Nitrogen (Total)	mg/L	Daily	31	108	352	1500	2000	No	
		7/08/12	Oil and Grease	mg/L	Twice per Week	8	0.2	1.1		10	No	
		7/08/12	pH	pH	Continuous	31	6.6	8.9		6.2-9.5	No	
		7/08/12	Temper-ature	degrees Celsius	Continuous	31	25.2	41.3		43	No	
		7/08/12	Total suspend-ed solids	mg/L	Daily	31	8	27		50	No	
		7/08/12	Zinc	mg/L	Daily	31	0.2	0.7		5	No	
		7/08/12	Flow	kL/day	Daily	31	1898	2744		4500	No	
24	Effluent Diversion Pond											No discharge

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Concentration Limit: See licence L3.6

Monthly Summary: June 2012

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	6/07/12	Arsenic	mg/L	Daily	30	<0.01	0.02		0.05	No	
		6/07/12	Chromium (hexa-valent)	mg/L	Daily	30	<0.01	<0.01	0.05	0.2	No	
		6/07/12	Nitrogen (Total)	mg/L	Daily	30	103	571	1500	2000	No	
		6/07/12	Oil and Grease	mg/L	Twice per Week	8	<0.01	1.9		10	No	
		6/07/12	pH	pH	Continuous	30	6.5	9.1		6.2-9.5	No	
		6/07/12	Temper-ature	degrees Celsius	Continuous	30	25.4	40.9		43	No	
		6/07/12	Total suspend-ed solids	mg/L	Daily	30	9	27		50	No	
		6/07/12	Zinc	mg/L	Daily	30	0.26	0.58		5	No	
		6/07/12	Flow	kL/day	Daily	30	1767	2755		4500	No	
24	Effluent Diversion Pond											No discharge

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Concentration Limit: See licence L3.6

Monthly Summary: May 2012

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	27/06/12	Arsenic	mg/L	Daily	31	<0.01	0.02		0.05	No	
		27/06/12	Chromium (hexa-valent)	mg/L	Daily	31	<0.01	0.02	0.05	0.2	No	
		27/06/12	Nitrogen (Total)	mg/L	Daily	31	10	474	1500	2000	No	
		27/06/12	Oil and Grease	mg/L	Twice per Week	10	0.01	3.4		10	No	
		27/06/12	pH	pH	Continuous	31	7.4	8.9		6.2-9.5	No	
		27/06/12	Temper-ature	degrees Celsius	Continuous	31		38		43	No	
		27/06/12	Total suspend-ed solids	mg/L	Daily	31	7	22		50	No	
		27/06/12	Zinc	mg/L	Daily	31	0.2	0.56		5	No	
		27/06/12	Flow	kL/day	Daily	31	1178	2516		4500	No	
24	Effluent Diversion Pond											No discharge

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Monthly Summary: April 2012

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	27/06/12	Arsenic	mg/L	Daily	30	<0.01	0.03		0.05	No	
		27/06/12	Chromium (hexa-	mg/L	Daily	30	<0.01	0.01	0.05	0.2	No	
			valent)									
		27/06/12	Nitrogen (Total)	mg/L	Daily	30	46	723	1500	2000	No	
		27/06/12	Oil and Grease	mg/L	Twice per Week	9	0.01	2.05		10	No	
		27/06/12	pH	pH	Continuous	30	7.3	8.8		6.2-	No	
										9.5		
		27/06/12	Temper-	degrees Celsius	Continuous	30	31	40		43	No	
			ature									
		27/06/12	Total suspend-	mg/L	Daily	30	7	22		50	No	
			ed solids									
		27/06/12	Zinc	mg/L	Daily	30	0.01	0.58		5	No	
24	Effluent Diversion Pond											No discharge