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 2014

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	4/04/14	Arsenic	mg/L	Daily	31	<0.01	0.03		0.05	No	
		4/04/14	Chromium (hexavalent)	mg/L	Daily	31	<0.01	0.02	0.05	0.2	No	
		4/04/14	Nitrogen (Total)	mg/L	Daily	31	41	414	1500	2000	No	
		4/04/14	Oil and Grease	mg/L	Twice per Week	9	0.2	1.3		10	No	
		4/04/14	pH	pH	Continuous	31	6.5	9.3		6.2-9.5	No	
		4/04/14	Temperature	degrees Celsius	Continuous	31	28.3	45.6		43	Yes	
		4/04/14	Total suspended solids	mg/L	Daily	31	4	19		50	No	
		4/04/14	Zinc	mg/L	Daily	31	0.08	0.31		5	No	
		4/04/14	Flow	kL/day	Daily	31	1857	3427		4500	No	
24	Effluent Diversion Pond	4/04/14										No discharge

Orica Kooragang Island Monitoring Points 23-24

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Concentration Limit: See licence L3.6

Monthly Summary: February 2014

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	3/03/14	Arsenic	mg/L	Daily	28	<0.01	0.03		0.05	No	
		3/03/14	Chromium (hexavalent)	mg/L	Daily	28	<0.01	0.01	0.05	0.2	No	
		3/03/14	Nitrogen (Total)	mg/L	Daily	28	99	1027	1500	2000	No	
		3/03/14	Oil and Grease	mg/L	Twice per Week	8	0.4	1.1		10	No	
		3/03/14	pH	pH	Continuous	28	7.3	9.3		6.2-9.5	No	
		3/03/14	Temperature	degrees Celsius	Continuous	28	26.2	43.3		43	Yes	
		3/03/14	Total suspended solids	mg/L	Daily	28	5	20		50	No	
		3/03/14	Zinc	mg/L	Daily	28	0.09	0.82		5	No	
		3/03/14	Flow	kL/day	Daily	28	1637	3376		4500	No	
24	Effluent Diversion Pond	3/03/14										No discharge

Orica Kooragang Island Monitoring Points 23-24

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Concentration Limit: See licence L3.6

Monthly Summary: January 2014

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	19/02/14	Arsenic	mg/L	Daily	31	<0.01	0.02		0.05	No	
		19/02/14	Chromium (hexavalent)	mg/L	Daily	31	<0.01	0.01	0.05	0.2	No	
		19/02/14	Nitrogen (Total)	mg/L	Daily	31	104	592	1500	2000	No	
		19/02/14	Oil and Grease	mg/L	Twice per Week	9	0.2	0.9		10	No	
		19/02/14	pH	pH	Continuous	31	6.5	9.2		6.2-9.5	No	
		19/02/14	Temperature	degrees Celsius	Continuous	31	31.9	42.8		43	No	
		19/02/14	Total suspended solids	mg/L	Daily	31	7	18		50	No	
		19/02/14	Zinc	mg/L	Daily	31	0.12	0.54		5	No	
		19/02/14	Flow	kL/day	Daily	31	2525	3321		4500	No	
24	Effluent Diversion Pond	19/02/14										No discharge

Orica Kooragang Island Monitoring Points 23-24

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Concentration Limit: See licence L3.6

Monthly Summary: December 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	13/01/14	Arsenic	mg/L	Daily	31	<0.01	0.02		0.05	No	
		13/01/14	Chromium (hexavalent)	mg/L	Daily	31	<0.01	0.01	0.05	0.2	No	
		13/01/14	Nitrogen (Total)	mg/L	Daily	31	30	444	1500	2000	No	
		13/01/14	Oil and Grease	mg/L	Twice per Week	10	0.2	1.3		10	No	
		13/01/14	pH	pH	Continuous	31	7.5	9.1		6.2-9.5	No	
		13/01/14	Temperature	degrees Celsius	Continuous	31	28.1	43.8		43	Yes	
		13/01/14	Total suspended solids	mg/L	Daily	31	7	15		50	No	
		13/01/14	Zinc	mg/L	Daily	31	0.19	0.93		5	No	
		13/01/14	Flow	kL/day	Daily	31	2014	3507		4500	No	
24	Effluent Diversion Pond	13/01/14										No discharge

Orica Kooragang Island Monitoring Points 23-24

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Concentration Limit: See licence L3.6

Monthly Summary: November 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	20/12/13	Arsenic	mg/L	Daily	30	<0.01	0.02		0.05	No	
		20/12/13	Chromium (hexa-valent)	mg/L	Daily	30	<0.01	0.04	0.05	0.2	No	
		20/12/13	Nitrogen (Total)	mg/L	Daily	30	67	283	1500	2000	No	
		20/12/13	Oil and Grease	mg/L	Twice per Week	9	0.2	2.2		10	No	
		20/12/13	pH	pH	Continuous	30	6.7	8.9		6.2-9.5	No	
		20/12/13	Temper-ature	degrees Celsius	Continuous	30	25	44.3		43	Yes	
		20/12/13	Total suspend-ed solids	mg/L	Daily	30	7	22		50	No	
		20/12/13	Zinc	mg/L	Daily	30	<0.01	0.5		5	No	
		20/12/13	Flow	kL/day	Daily	30	2043	3352		4500	No	
24	Effluent Diversion Pond	20/12/13										No discharge

Orica Kooragang Island Monitoring Points 23-24

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Concentration Limit: See licence L3.6

Monthly Summary: October 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	5/11/13	Arsenic	mg/L	Daily	31	0.01	0.03		0.05	No	
		5/11/13	Chromium (hexa-valent)	mg/L	Daily	31	<0.01	0.02	0.05	0.2	No	
		5/11/13	Nitrogen (Total)	mg/L	Daily	31	0	503	1500	2000	No	
		5/11/13	Oil and Grease	mg/L	Twice per Week	9	0.3	0.8		10	No	
		5/11/13	pH	pH	Continuous	31	6.5	9.3		6.2-9.5	No	
		5/11/13	Temper-ature	degrees Celsius	Continuous	31	26.5	41.6		43	No	
		5/11/13	Total suspend-ed solids	mg/L	Daily	31	7	45		50	No	
		5/11/13	Zinc	mg/L	Daily	31	0.2	0.7		5	No	
		5/11/13	Flow	kL/day	Daily	31	1404	2655		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: September 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	14/10/13	Arsenic	mg/L	Daily	30	0.01	0.02		0.05	No	
		14/10/13	Chromium (hexa-valent)	mg/L	Daily	30	<0.01	0.01	0.05	0.2	No	
		14/10/13	Nitrogen (Total)	mg/L	Daily	30	32	409	1500	2000	No	
		14/10/13	Oil and Grease	mg/L	Twice per Week	9	0.3	1.1		10	No	
		14/10/13	pH	pH	Continuous	30	6.7	9		6.2-9.5	No	
		14/10/13	Temper-ature	degrees Celsius	Continuous	30	26.8	44.6		43	Yes	
		14/10/13	Total suspend-ed solids	mg/L	Daily	30	7	25		50	No	
		14/10/13	Zinc	mg/L	Daily	30	0.2	0.5		5	No	
		14/10/13	Flow	kL/day	Daily	30	1833	2880		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 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	13/09/13	Arsenic	mg/L	Daily	31	<0.01	0.02		0.05	No	
		13/09/13	Chromium (hexa-	mg/L	Daily	31	<0.01	<0.01	0.05	0.2	No	
			valent)									
		13/09/13	Nitrogen (Total)	mg/L	Daily	31	42	313	1500	2000	No	
		13/09/13	Oil and Grease	mg/L	Twice per Week	9	0.3	1.1		10	No	
		13/09/13	pH	pH	Continuous	31	6.6	9.1		6.2-9.5	No	
		13/09/13	Temper-	degrees Celsius	Continuous	31	18.7	46.3		43	Yes	
			ature									
		13/09/13	Total suspend-	mg/L	Daily	31	6	19		50	No	
			ed solids									
		13/09/13	Zinc	mg/L	Daily	31	0.2	0.4		5	No	
		13/09/13	Flow	kL/day	Daily	31	1964	2688		4500	No	
24	Effluent Diversion Pond											No discharge

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Concentration Limit: See licence L3.6

Monthly Summary: July 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	9/08/13	Arsenic	mg/L	Daily	31	<0.01	0.11		0.05	No	
		9/08/13	Chromium (hexa-	mg/L	Daily	31	<0.01	0.03	0.05	0.2	No	
			valent)									
		9/08/13	Nitrogen (Total)	mg/L	Daily	31	15	260	1500	2000	No	
		9/08/13	Oil and Grease	mg/L	Twice per Week	11	0.3	2.8		10	No	
		9/08/13	pH	pH	Continuous	31	6.7	9		6.2-9.5	No	
		9/08/13	Temper-	degrees Celsius	Continuous	31	24.6	40.5		43	No	
			ature									
		9/08/13	Total suspend-	mg/L	Daily	31	7	705		50	No	
			ed solids									
		9/08/13	Zinc	mg/L	Daily	31	0.12	4.1		5	No	
		9/08/13	Flow	kL/day	Daily	31	1815	2896		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: June 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	3/07/13	Arsenic	mg/L	Daily	30	<0.01	0.02		0.05	No	
		3/07/13	Chromium (hexa-	mg/L	Daily	30	<0.01	<0.01	0.05	0.2	No	
			valent)									
		3/07/13	Nitrogen (Total)	mg/L	Daily	30	32	496	1500	2000	No	
		3/07/13	Oil and Grease	mg/L	Twice per Week	9	0.4	1.9		10	No	
		3/07/13	pH	pH	Continuous	30	6.5	9		6.2-9.5	No	
		3/07/13	Temper-	degrees Celsius	Continuous	30	24.6	42.8		43	No	
			ature									
		3/07/13	Total suspend-	mg/L	Daily	30	6	19		50	No	
			ed solids									
		3/07/13	Zinc	mg/L	Daily	30	0.15	0.47		5	No	
		3/07/13	Flow	kL/day	Daily	30	2090	3301		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: May 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	11/06/13	Arsenic	mg/L	Daily	31	<0.01	0.02		0.05	No	
		11/06/13	Chromium (hexa-	mg/L	Daily	31	<0.01	0.01	0.05	0.2	No	
			valent)									
		11/06/13	Nitrogen (Total)	mg/L	Daily	31	99	767	1500	2000	No	
		11/06/13	Oil and Grease	mg/L	Twice per Week	8	0.4	4		10	No	
		11/06/13	pH	pH	Continuous	31	6.6	8.8		6.2-9.5	No	
		11/06/13	Temper-	degrees Celsius	Continuous	31	23.4	42.3		43	No	
			ature									
		11/06/13	Total suspend-	mg/L	Daily	31	8	21		50	No	
			ed solids									
		11/06/13	Zinc	mg/L	Daily	31	0.15	0.47		5	No	
		11/06/13	Flow	kL/day	Daily	31	1845	2898		4500	No	
24	Effluent Diversion Pond											No discharge

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Concentration Limit: See licence L3.6

Monthly Summary: April 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	14/05/13	Arsenic	mg/L	Daily	30	0.01	0.02		0.05	No	
		14/05/13	Chromium (hexa-	mg/L	Daily	30	<0.01	0.01	0.05	0.2	No	
			valent)									
		14/05/13	Nitrogen (Total)	mg/L	Daily	30	25	702	1500	2000	No	
		14/05/13	Oil and Grease	mg/L	Twice per Week	9	0.5	1.8		10	No	
		14/05/13	pH	pH	Continuous	30	6.8	8.9		6.2-9.5	No	
		14/05/13	Temper-	degrees Celsius	Continuous	30	27.5	44.6		43	Yes	
			ature									
		14/05/13	Total suspend-	mg/L	Daily	30	6	17		50	No	
			ed solids									
		14/05/13	Zinc	mg/L	Daily	30	0.2	0.58		5	No	
		14/05/13	Flow	kL/day	Daily	30	1988	3254		4500	No	
24	Effluent Diversion Pond											No discharge