



Orica Kooragang Island Monitoring Points 38-39

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 2022 Effluent Discharge - Hunter River

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
39	Effluent Discharge Point	4/04/22	Ammonia	mg/L	Daily	31	47	15			NA	
		4/04/22	Arsenic	mg/L	Daily	31	0.008	0.016		0.05	No	
		4/04/22	Chromium (hexavalent)	mg/L	Daily	31	0.001	0.018	0.05	0.2	No	
		4/04/22	Nitrogen (Total)	mg/L	Daily	31	108	315	1500	2000	No	
		4/04/22	Oil and Grease	mg/L	Twice per Week	31	0.2	0.5		10	No	
		4/04/22	pH	pH	Continuous	31	6.9	8.8		6.2-9.5	No	
		4/04/22	Temperature	Degrees Celsius	Continuous	31	28	40.4		43	No	
		4/04/22	Total suspended solids	mg/L	Daily	31	4	15		50	No	
		4/04/22	Zinc	mg/L	Daily	31	0.045	0.108		5	No	
		4/04/22	Flow	kL/day	Daily	31	3134	4274		4500	No	



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Concentration Limit: See licence L3.6

Monthly Summary: February 2022 Effluent Discharge - Hunter River

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
39	Effluent Discharge Point	16/03/22	Ammonia	mg/L	Daily	28	26	110			NA	
		16/03/22	Arsenic	mg/L	Daily	28	0.007	0.013		0.05	No	
		16/03/22	Chromium (hexavalent)	mg/L	Daily	28	0.000	0.008	0.05	0.2	No	
		16/03/22	Nitrogen (Total)	mg/L	Daily	28	58	225	1500	2000	No	
		16/03/22	Oil and Grease	mg/L	Twice per Week	8	0.3	0.5		10	No	
		16/03/22	pH	pH	Continuous	28	6.9	8.8		6.2-9.5	No	
		16/03/22	Temperature	Degrees Celsius	Continuous	28	26	38.8		43	No	
		16/03/22	Total suspended solids	mg/L	Daily	28	2	14		50	No	
		16/03/22	Zinc	mg/L	Daily	28	0.031	0.151		5	No	
		16/03/22	Flow	kL/day	Daily	28	2864	3911		4500	No	



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Concentration Limit: See licence L3.6

Monthly Summary: January 2022 Effluent Discharge - Hunter River

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
23	Effluent Discharge Point	16/02/22	Ammonia	mg/L	Daily	31	30	95			NA	
		16/02/22	Arsenic	mg/L	Daily	31	0.007	0.017		0.05	No	
		16/02/22	Chromium (hexavalent)	mg/L	Daily	31	0.003	0.028	0.05	0.2	No	
		16/02/22	Nitrogen (Total)	mg/L	Daily	31	67	186	1500	2000	No	
		16/02/22	Oil and Grease	mg/L	Twice per Week	8	0.3	0.6		10	No	
		16/02/22	pH	pH	Continuous	31	6.9	8.5		6.2-9.5	No	
		16/02/22	Temperature	Degrees Celsius	Continuous	31	28.7	37.7		43	No	
		16/02/22	Total suspended solids	mg/L	Daily	31	2	29		50	No	
		16/02/22	Zinc	mg/L	Daily	31	0.039	0.10		5	No	
		16/02/22	Flow	kL/day	Daily	31	2532	3487		4500	No	
38												



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Concentration Limit: See licence L3.6

Monthly Summary: December 2021 Effluent Discharge - Hunter River

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
23	Effluent Discharge Point	14/01/22	Ammonia	mg/L	Daily	31	25	122			NA	
		14/01/22	Arsenic	mg/L	Daily	31	0.009	0.017		0.05	No	
		14/01/22	Chromium (hexavalent)	mg/L	Daily	31	0.001	0.026	0.05	0.2	No	
		14/01/22	Nitrogen (Total)	mg/L	Daily	31	63	203	1500	2000	No	
		14/01/22	Oil and Grease	mg/L	Twice per Week	9	0.3	0.7		10	No	
		14/01/22	pH	pH	Continuous	31	6.7	8.6		6.2-9.5	No	
		14/01/22	Temperature	Degrees Celsius	Continuous	31	27.3	38.8		43	No	
		14/01/22	Total suspended solids	mg/L	Daily	31	6	23		50	No	
		14/01/22	Zinc	mg/L	Daily	31	0.031	0.10		5	No	
		14/01/22	Flow	kL/day	Daily	31	2331	3264		4500	No	



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 Concentration Limit: See licence L3.6
 Monthly Summary: November 2021 Effluent Discharge - Hunter River

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
23	Effluent Discharge Point	10/12/21	Ammonia	mg/L	Daily	30	12	185			NA	
		10/12/21	Arsenic	mg/L	Daily	30	0.006	0.018		0.05	No	
		10/12/21	Chromium (hexavalent)	mg/L	Daily	30	0.001	0.031	0.05	0.2	No	
		10/12/21	Nitrogen (Total)	mg/L	Daily	30	84	398	1500	2000	No	
		10/12/21	Oil and Grease	mg/L	Twice per Week	9	0.4	0.7		10	No	
		10/12/21	pH	pH	Continuous	30	6.6	8.8		6.2-9.5	No	
		10/12/21	Temperature	Degrees Celsius	Continuous	30	23	35.8		43	No	
		10/12/21	Total suspended solids	mg/L	Daily	30	5	25		50	No	
		10/12/21	Zinc	mg/L	Daily	30	0.036	0.15		5	No	
		10/12/21	Flow	kL/day	Daily	30	621	3874		4500	No	
38												



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Concentration Limit: See licence L3.6

Monthly Summary: October 2021 Effluent Discharge - Hunter River

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
23	Effluent Discharge Point	12/11/21	Ammonia	mg/L	Daily	31	37	120			NA	
		12/11/21	Arsenic	mg/L	Daily	31	0.006	0.013		0.05	No	
		12/11/21	Chromium (hexavalent)	mg/L	Daily	31	0.000	0.029	0.05	0.2	No	
		12/11/21	Nitrogen (Total)	mg/L	Daily	31	91	277	1500	2000	No	
		12/11/21	Oil and Grease	mg/L	Twice per Week	8	0.0	0.8		10	No	
		12/11/21	pH	pH	Continuous	31	7.0	8.5		6.2-9.5	No	
		12/11/21	Temperature	Degrees Celsius	Continuous	31	25.8	33.4		43	No	
		12/11/21	Total suspended solids	mg/L	Daily	31	9	24		50	No	
		12/11/21	Zinc	mg/L	Daily	31	0.022	0.12		5	No	
		12/11/21	Flow	kL/day	Daily	31	2464	3665		4500	No	
38												



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Monthly Summary: September 2021 Effluent Discharge - Hunter River

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		
23	Effluent Discharge Point	11/10/21	Ammonia	mg/L	Daily	30	60	254			NA			
		11/10/21	Arsenic	mg/L	Daily	30	0.008	0.013		0.05	No			
		11/10/21	Chromium (hexavalent)	mg/L	Daily	30	0.002	0.040	0.05	0.2	No			
		11/10/21	Nitrogen (Total)	mg/L	Daily	30	110	340	1500	2000	No			
		11/10/21	Oil and Grease	mg/L	Twice per Week	9	0.3	1		10	No			
		11/10/21	pH	pH	Continuous	30	7.2	8.6		6.2-9.5	No			
		11/10/21	Temperature	Degrees Celsius	Continuous	30	22.0	35.0		43	No			
		11/10/21	Total suspended solids	mg/L	Daily	30	8	26		50	No			
		11/10/21	Zinc	mg/L	Daily	30	0.038	0.14		5	No			
		38		11/10/21	Zinc	mg/L	Daily	30	0.038	0.14		5	No	
				11/10/21	Flow	kL/day	Daily	30	1887	3206		4500	No	



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Monthly Summary: August 2021 Effluent Discharge - Hunter River

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
23	Effluent Discharge Point	16/09/21	Ammonia	mg/L	Daily	31	49	174			NA	
		16/09/21	Arsenic	mg/L	Daily	31	0.007	0.014		0.05	No	
		16/09/21	Chromium (hexavalent)	mg/L	Daily	31	0.000	0.033	0.05	0.2	No	
		16/09/21	Nitrogen (Total)	mg/L	Daily	31	89	287	1500	2000	No	
		16/09/21	Oil and Grease	mg/L	Twice per Week	9	0.3	1.5		10	No	
		16/09/21	pH	pH	Continuous	31	7.4	8.8		6.2-9.5	No	
		16/09/21	Temperature	Degrees Celsius	Continuous	31	12.7	34.2		43	No	
		16/09/21	Total suspended solids	mg/L	Daily	31	8	17		50	No	
		16/09/21	Zinc	mg/L	Daily	31	0.042	0.22		5	No	
		16/09/21	Flow	kL/day	Daily	31	1707	3262		4500	No	
38												



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Monthly Summary: July 2021 Effluent Discharge - Hunter River

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
23	Effluent Discharge Point	16/08/21	Ammonia	mg/L	Daily	31	43	238			NA	
		16/08/21	Arsenic	mg/L	Daily	31	0.001	0.013		0.05	No	
		16/08/21	Chromium (hexavalent)	mg/L	Daily	31	0.001	0.014	0.05	0.2	No	
		16/08/21	Nitrogen (Total)	mg/L	Daily	31	69	443	1500	2000	No	
		16/08/21	Oil and Grease	mg/L	Twice per Week	7	0	0.3		10	No	
		16/08/21	pH	pH	Continuous	31	6.9	8.8		6.2-9.5	No	
		16/08/21	Temperature	Degrees Celsius	Continuous	31	10.7	32.6		43	No	
		16/08/21	Total suspended solids	mg/L	Daily	31	3	24		50	No	
		16/08/21	Zinc	mg/L	Daily	31	0.031	0.11		5	No	
		16/08/21	Flow	kL/day	Daily	31	1777	2602		4500	No	
		38										



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Monthly Summary: June 2021 Effluent Discharge - Hunter River

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
23	Effluent Discharge Point	15/07/21	Ammonia	mg/L	Daily	30	12	248			NA	
		15/07/21	Arsenic	mg/L	Daily	30	0.009	0.014		0.05	No	
		15/07/21	Chromium (hexavalent)	mg/L	Daily	30	0.000	0.029	0.05	0.2	No	
		15/07/21	Nitrogen (Total)	mg/L	Daily	30	114	439	1500	2000	No	
		15/07/21	Oil and Grease	mg/L	Twice per Week	7	0	0.3		10	No	
		15/07/21	pH	pH	Continuous	30	7.3	8.9		6.2-9.5	No	
		15/07/21	Temperature	Degrees Celsius	Continuous	30	21.8	32.2		43	No	
		15/07/21	Total suspended solids	mg/L	Daily	30	4	22		50	No	
		15/07/21	Zinc	mg/L	Daily	30	0.021	0.19		5	No	
		15/07/21	Flow	kL/day	Daily	30	2001	3094		4500	No	
38												



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Monthly Summary: May 2021 Effluent Discharge - Hunter River

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		
23	Effluent Discharge Point	9/06/21	Ammonia	mg/L	Daily	31	40	196			NA			
		9/06/21	Arsenic	mg/L	Daily	31	0.008	0.014		0.05	No			
		9/06/21	Chromium (hexavalent)	mg/L	Daily	31	0.000	0.008	0.05	0.2	No			
		9/06/21	Nitrogen (Total)	mg/L	Daily	31	84	370	1500	2000	No			
		9/06/21	Oil and Grease	mg/L	Twice per Week	7	0.1	0.4		10	No			
		9/06/21	pH	pH	Continuous	31	6.6	9.2		6.2-9.5	No			
		9/06/21	Temperature	Degrees Celsius	Continuous	31	12.3	40.4		43	No			
		9/06/21	Total suspended solids	mg/L	Daily	31	4	16		50	No			
		9/06/21	Zinc	mg/L	Daily	31	0.037	0.11		5	No			
		38		9/06/21	Zinc	mg/L	Daily	31	0.037	0.11		5	No	
				9/06/21	Flow	kL/day	Daily	31	1895	2913		4500	No	



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Monthly Summary: April 2021 Effluent Discharge - Hunter River

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23	Effluent Discharge Point	10/05/21	Ammonia	mg/L	Daily	30	40	126			NA	
		10/05/21	Arsenic	mg/L	Daily	30	0.007	0.017		0.05	No	
		10/05/21	Chromium (hexavalent)	mg/L	Daily	30	0.000	0.019	0.05	0.2	No	
		10/05/21	Nitrogen (Total)	mg/L	Daily	30	80	242	1500	2000	No	
		10/05/21	Oil and Grease	mg/L	Twice per Week	9	0	0.1		10	No	
		10/05/21	pH	pH	Continuous	30	6.9	8.8		6.2-9.5	No	
		10/05/21	Temperature	Degrees Celsius	Continuous	30	27.5	38.5		43	No	
		10/05/21	Total suspended solids	mg/L	Daily	30	4	21		50	No	
		10/05/21	Zinc	mg/L	Daily	30	0.002	0.10		5	No	
		10/05/21	Flow	kL/day	Daily	30	2003	3173		4500	No	
38												