



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: 75 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 2024 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	2/04/24	Ammonia	mg/L	Daily	31	13	114			N/A	
		2/04/24	Arsenic	mg/L	Daily	31	0.00	0.02		0.05	No	
		2/04/24	Chromium (hexavalent)	mg/L	Daily	31	0.000	0.012	0.05	0.2	No	
		2/04/24	Nitrogen (Total)	mg/L	Daily	31	36	177	1500	2000	No	
		2/04/24	Oil and Grease	mg/L	Twice per Week	8	1.6	1.6		10	No	
		2/04/24	pH	pH	Continuous	Continuous	6.44	8.94		6.2-9.5	No	
		2/04/24	Temperature	Degrees Celsius	Continuous	Continuous	25.02	38.65		43	No	
		2/04/24	Total suspended solids	mg/L	Daily	31		15		50	No	
		2/04/24	Zinc	mg/L	Daily	31	0.192	2.432		5	No	
		2/04/24	Copper (Total)	mg/L	Daily	31	0.172	0.513		N/A	N/A	
		2/04/24	Nickel (Total)	mg/L	Daily	31	0.005	0.188		N/A	N/A	
		2/04/24	Phosphorous (Total)	mg/L	Daily	31		0.108		N/A	N/A	
		38		2/04/24	Flow	kL/day	Daily	31	1812	3046		4500



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 Monthly Summary: February 2024 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	15/03/24	Ammonia	mg/L	Daily	29	26	189			N/A	
		15/03/24	Arsenic	mg/L	Daily	29	0.008	0.019		0.05	No	
		15/03/24	Chromium (hexavalent)	mg/L	Daily	29			0.05	0.2	No	
		15/03/24	Nitrogen (Total)	mg/L	Daily	29	66	398	1500	2000	No	
		15/03/24	Oil and Grease	mg/L	Twice per Week	8	1.6	1.6		10	No	
		15/03/24	pH	pH	Continuous	Continuous	7.66	8.88		6.2-9.5	No	
		15/03/24	Temperature	Degrees Celsius	Continuous	Continuous	27.5	41.4		43	No	
		15/03/24	Total suspended solids	mg/L	Daily	29				50	No	
		15/03/24	Zinc	mg/L	Daily	29	0.292	0.696		5	No	
		15/03/24	Copper (Total)	mg/L	Daily	29	0.009	0.073		N/A	N/A	
		15/03/24	Nickel (Total)	mg/L	Daily	29	0	0.009		N/A	N/A	
		15/03/24	Phosphorous (Total)	mg/L	Daily	29				N/A	N/A	
		38		15/03/24	Flow	kL/day	Daily	29	1422	3162		4500



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 Monthly Summary: January 2024 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	15/02/24	Ammonia	mg/L	Daily	31	26	189			No	
		15/02/24	Arsenic	mg/L	Daily	31	0.008	0.019		0.05	No	
		15/02/24	Chromium (hexavalent)	mg/L	Daily	31			0.05	0.2	No	
		15/02/24	Nitrogen (Total)	mg/L	Daily	31	66	398	1500	2000	No	
		15/02/24	Oil and Grease	mg/L	Twice per Week	9	1.6	1.6		10	No	
		15/02/24	pH	pH	Continuous	Continuous	7.66	8.88		6.2-9.5	No	
		15/02/24	Temperature	Degrees Celsius	Continuous	Continuous	27.5	41.4		43	No	
		15/02/24	Total suspended solids	mg/L	Daily	31	3	19		50	No	
		15/02/24	Zinc	mg/L	Daily	31	0.292	0.696		5	No	
		15/02/24	Copper (Total)	mg/L	Daily	31	0.017	0.033		N/A	N/A	
		15/02/24	Nickel (Total)	mg/L	Daily	31	0.002	0.005		N/A	N/A	
		15/02/24	Phosphorous (Total)	mg/L	Daily	31				N/A	N/A	
		38		15/02/24	Flow	kL/day	Daily	31	2272	3112		4500



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Monthly Summary: December 2023 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	11/01/24	Ammonia	mg/L	Daily	31	22	152			N/A	
		11/01/24	Arsenic	mg/L	Daily	31	0.001	0.022		0.05	No	
		11/01/24	Chromium (hexavalent)	mg/L	Daily	31			0.05	0.2	No	
		11/01/24	Nitrogen (Total)	mg/L	Daily	31			1500	2000	No	
		11/01/24	Oil and Grease	mg/L	Twice per Week	8	0	0		10	No	
		11/01/24	pH	pH	Continuous	Continuous	4.69	9.34		6.2-9.5	No	
		11/01/24	Temperature	Degrees Celsius	Continuous	Continuous	21.8	39.51		43	No	
		11/01/24	Total suspended solids	mg/L	Daily	31				50	No	
		11/01/24	Zinc	mg/L	Daily	31	0.024	0.695		5	No	
		11/01/24	Copper (Total)	mg/L	Daily	31	0.02	0.079		N/A	N/A	
		11/01/24	Nickel (Total)	mg/L	Daily	31	0.002	0.012		N/A	N/A	
		11/01/24	Phosphorous (Total)	mg/L	Daily	31				N/A	N/A	
		11/01/24	Flow	kL/day	Daily	31	0.009	1.118				
		38		11/01/24	Flow	kL/day	Daily	31	2324	3030		4500



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Monthly Summary: November 2023 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	7/12/23	Ammonia	mg/L	Daily	30	23	195			N/A	
		7/12/23	Arsenic	mg/L	Daily	30	0.003	0.019		0.05	No	
		7/12/23	Chromium (hexavalent)	mg/L	Daily	30			0.05	0.2	No	
		7/12/23	Nitrogen (Total)	mg/L	Daily	30			1500	2000	No	
		7/12/23	Oil and Grease	mg/L	Twice per Week	10	1.6	1.6		10	No	
		7/12/23	pH	pH	Continuous	Continuous	7.2	9.2		6.2-9.5	No	
		7/12/23	Temperature	Degrees Celsius	Continuous	Continuous	24.4	38.1		43	No	
		7/12/23	Total suspended solids	mg/L	Daily	30				50	No	
		7/12/23	Zinc	mg/L	Daily	30	0.13	0.697		5	No	
		7/12/23	Copper (Total)	mg/L	Daily	30	0.024	0.062		N/A	N/A	
		7/12/23	Nickel (Total)	mg/L	Daily	30	0.004	0.012		N/A	N/A	
		7/12/23	Phosphorous (Total)	mg/L	Daily	30				N/A	N/A	
		38		7/12/23	Flow	kL/day	Daily	30	1878	3119		4500



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 Monthly Summary: October 2023 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	2/11/23	Ammonia	mg/L	Daily	31	20	114			N/A	
		2/11/23	Arsenic	mg/L	Daily	31	0	0.018		0.05	No	
		2/11/23	Chromium (hexavalent)	mg/L	Daily	31			0.05	0.2	No	
		2/11/23	Nitrogen (Total)	mg/L	Daily	31	47	214	1500	2000	No	
		2/11/23	Oil and Grease	mg/L	Twice per Week	8	1.6	1.6		10	No	
		2/11/23	pH	pH	Continuous	Continuous	7.48	9.32		6.2-9.5	No	
		2/11/23	Temperature	Degrees Celsius	Continuous	Continuous	23.3	36.5		43	No	
		2/11/23	Total suspended solids	mg/L	Daily	31				50	No	
		2/11/23	Zinc	mg/L	Daily	31	0.159	1.08		5	No	
		2/11/23	Copper (Total)	mg/L	Daily	31	0.004	0.271		N/A	N/A	
		2/11/23	Nickel (Total)	mg/L	Daily	31	0.002	0.035		N/A	N/A	
		2/11/23	Phosphorous (Total)	mg/L	Daily	31				N/A	N/A	
		38		2/11/23	Flow	kL/day	Daily	31	1497	2707		4500



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Monthly Summary: September 2023 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	12/10/23	Ammonia	mg/L	Daily	30	37	122			N/A	
		12/10/23	Arsenic	mg/L	Daily	30	0.005	0.01		0.05	No	
		12/10/23	Chromium (hexavalent)	mg/L	Daily	30			0.05	0.2	No	
		12/10/23	Nitrogen (Total)	mg/L	Daily	30	101	201	1500	2000	No	
		12/10/23	Oil and Grease	mg/L	Twice per Week	9	1.6	1.6		10	No	
		12/10/23	pH	pH	Continuous	Continuous	7.3	9		6.2-9.5	No	
		12/10/23	Temperature	Degrees Celsius	Continuous	Continuous	29	39.2		43	No	
		12/10/23	Total suspended solids	mg/L	Daily	30				50	No	
		12/10/23	Zinc	mg/L	Daily	30	0.267	0.531		5	No	
		12/10/23	Copper (Total)	mg/L	Daily	30	0.011	0.018		N/A	N/A	
		12/10/23	Nickel (Total)	mg/L	Daily	30	0.003	0.01		N/A	N/A	
		12/10/23	Phosphorous (Total)	mg/L	Daily	30				N/A	N/A	
		38		12/10/23	Flow	kL/day	Daily	30	1659	2862		4500



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 Monthly Summary: August 2023 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	12/09/23	Ammonia	mg/L	Daily	31	49	162			N/A		
		12/09/23	Arsenic	mg/L	Daily	31	0.001	0.009		0.05	No		
		12/09/23	Chromium (hexavalent)	mg/L	Daily	31			0.05	0.2	No		
		12/09/23	Nitrogen (Total)	mg/L	Daily	31	113	334	1500	2000	No		
		12/09/23	Oil and Grease	mg/L	Twice per Week	9	1.6	1.6		10	No		
		12/09/23	pH	pH	Continuous	Continuous	7.1	9		6.2-9.5	No		
		12/09/23	Temperature	Degrees Celsius	Continuous	Continuous	24.9	36.15		43	No		
		12/09/23	Total suspended solids	mg/L	Daily	31				50	No		
		12/09/23	Zinc	mg/L	Daily	31	0.237	0.437		5	No		
		12/09/23	Copper (Total)	mg/L	Daily	28	0.012	0.046		N/A	N/A		
		12/09/23	Nickel (Total)	mg/L	Daily	28	0.002	0.007		N/A	N/A		
		12/09/23	Phosphorous (Total)	mg/L	Daily	28				N/A	N/A		
								0.452	0.761				
		38		12/09/23	Flow	kL/day	Daily	30	2135	2887		4500	No



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 Monthly Summary: July 2023 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	2/08/23	Ammonia	mg/L	Daily	31	25	366			N/A	
		2/08/23	Arsenic	mg/L	Daily	31	0	0.01		0.05	No	
		2/08/23	Chromium (hexavalent)	mg/L	Daily	31	0	0.02	0.05	0.2	No	
		2/08/23	Nitrogen (Total)	mg/L	Daily	31	63	695	1500	2000	No	
		2/08/23	Oil and Grease	mg/L	Twice per Week	8	1.6	1.7		10	No	
		2/08/23	pH	pH	Continuous	Continuous	6.65	8.71		6.2-9.5	No	
		2/08/23	Temperature	Degrees Celsius	Continuous	Continuous	21.48	34.92		43	No	
		2/08/23	Total suspended solids	mg/L	Daily	31	2	14		50	No	
		2/08/23	Zinc	mg/L	Daily	31	0.199	0.379		5	No	
		2/08/23	Flow	kL/day	Daily	31	2295	3397		4500	No	
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 Monthly Summary: June 2023 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	10/07/23	Ammonia	mg/L	Daily	30	30	170			N/A	
		10/07/23	Arsenic	mg/L	Daily	30	0.004	0.014		0.05	No	
		10/07/23	Chromium (hexavalent)	mg/L	Daily	30			0.05	0.2	No	
		10/07/23	Nitrogen (Total)	mg/L	Daily	30	62	280	1500	2000	No	
		10/07/23	Oil and Grease	mg/L	Twice per Week	8	1.6	1.6		10	No	
		10/07/23	pH	pH	Continuous	Continuous	6.43	8.44		6.2-9.5	No	
		10/07/23	Temperature	Degrees Celsius	Continuous	Continuous	23.38	34.15		43	No	
		10/07/23	Total suspended solids	mg/L	Daily	30				50	No	
		10/07/23	Zinc	mg/L	Daily	30	0.214	0.41		5	No	
		10/07/23	Flow	kL/day	Daily	30	2026.2	3375.3		4500	No	



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Monthly Summary: May 2023 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	7/06/23	Ammonia	mg/L	Daily	31	29	109			N/A	
		7/06/23	Arsenic	mg/L	Daily	31	0.005	0.016		0.05	No	
		7/06/23	Chromium (hexavalent)	mg/L	Daily	31			0.05	0.2	No	
		7/06/23	Nitrogen (Total)	mg/L	Daily	31	64	204	1500	2000	No	
		7/06/23	Oil and Grease	mg/L	Twice per Week	10	1.6	1.6		10	No	
		7/06/23	pH	pH	Continuous	Continuous	6.52	8.66		6.2-9.5	No	
		7/06/23	Temperature	Degrees Celsius	Continuous	Continuous	22.17	34.65		43	No	
		7/06/23	Total suspended solids	mg/L	Daily	31				50	No	
		7/06/23	Zinc	mg/L	Daily	31	0.002	0.355		5	No	
		7/06/23	Flow	kL/day	Daily	31	2040.8	3199		4500	No	
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Licensee Name: ORICA AUSTRALIA PTY LTD

Licensee Address: 75 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: April 2023 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	16/05/23	Ammonia	mg/L	Daily	30	29	131			N/A	
		16/05/23	Arsenic	mg/L	Daily	30	0.007	0.02		0.05	No	
		16/05/23	Chromium (hexavalent)	mg/L	Daily	30			0.05	0.2	No	
		16/05/23	Nitrogen (Total)	mg/L	Daily	30	48	219	1500	2000	No	
		16/05/23	Oil and Grease	mg/L	Twice per Week	8	1.6	1.6		10	No	
		16/05/23	pH	pH	Continuous	Continuous	6.8	8.8		6.2-9.5	No	
		16/05/23	Temperature	Degrees Celsius	Continuous	Continuous	25	36.8		43	No	
		16/05/23	Total suspended solids	mg/L	Daily	30	8	27		50	No	
		16/05/23	Zinc	mg/L	Daily	30	0.176	0.38		5	No	
		16/05/23	Flow	kL/day	Daily	30	1988.1	3603.4		4500	No	
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