



Orica Kooragang Island Monitoring Points 38-39

Details of Licence Conditions

EPA Licence No: 828
 Link to full licence on EPA website: <http://www.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=828&id=828&option=licence&searchchange=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 2025 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	7/04/25	Ammonia	mg/L	Daily	30	42	179			N/A		
		7/04/25	Arsenic	mg/L	Daily	30	0.01	0.02		0.05	No		
		7/04/25	Chromium (hexavalent)	mg/L	Daily	30			0.05	0.2	No		
		7/04/25	Nitrogen (Total)	mg/L	Daily	30	0.002	0.015	1500	2000	No		
		7/04/25	Oil and Grease	mg/L	Twice per Week	8	95	389			No		
		7/04/25	pH	pH	Continuous	Continuous	8	1.6	1.6		10	No	
		7/04/25	Temperature	Degrees Celsius	Continuous	Continuous	Continuous	6.4	8.9		6.2-9.5	No	
		7/04/25	Total suspended solids	mg/L	Daily	30	25.02	38.7		43	No		
		7/04/25	Zinc	mg/L	Daily	30	1	15		50	No		
		7/04/25	Copper (Total)	mg/L	Daily	30	0.282	0.763		5	No		
		7/04/25	Nickel (Total)	mg/L	Daily	30	0.011	0.146		N/A	N/A		
		7/04/25	Nickel (Total)	mg/L	Daily	30	0	0.011		N/A	N/A		
		7/04/25	Phosphorous (Total)	mg/L	Daily	30				N/A	N/A		
		38		7/04/25	Flow	kL/day	Daily	30	0.452	12.765			
7/04/25	Flow			kL/day	Daily	30	2480	3836		4500	No		



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Monthly Summary: February 2025 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	12/03/25	Ammonia	mg/L	Daily	28	19	272			N/A		
		12/03/25	Arsenic	mg/L	Daily	28	0.003	0.03		0.05	No		
		12/03/25	Chromium (hexavalent)	mg/L	Daily	28	0.002	0.019	0.05	0.2	No		
		12/03/25	Nitrogen (Total)	mg/L	Daily	28	66	454	1500	2000	No		
		12/03/25	Oil and Grease	mg/L	Twice per Week	8	1.6	1.6		10	No		
		12/03/25	pH	pH	Continuous	Continuous	6.9	8.9		6.2-9.5	No		
		12/03/25	Temperature	Degrees Celsius	Continuous	Continuous	28.2	38.2		43	No		
		12/03/25	Total suspended solids	mg/L	Daily	28	1	30		50	No		
		12/03/25	Zinc	mg/L	Daily	28	0.229	0.799		5	No		
		12/03/25	Copper (Total)	mg/L	Daily	28	0.007	0.128		N/A	N/A		
		12/03/25	Nickel (Total)	mg/L	Daily	28	0	0.005		N/A	N/A		
		12/03/25	Phosphorous (Total)	mg/L	Daily	28				N/A	N/A		
		12/03/25	Flow	kL/day	Daily	28	0.456	2.048			4500	No	
		38		12/03/25	Flow	kL/day	Daily	28	2336	3078			



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Monthly Summary: January 2025 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	10/02/25	Ammonia	mg/L	Daily	31	34	346			N/A	
		10/02/25	Arsenic	mg/L	Daily	31	0.011	0.02		0.05	No	
		10/02/25	Chromium (hexavalent)	mg/L	Daily	31			0.05	0.2	No	
		10/02/25	Nitrogen (Total)	mg/L	Daily	31	57	472	1500	2000	No	
		10/02/25	Oil and Grease	mg/L	Twice per Week	10	1.6	1.6		10	No	
		10/02/25	pH	pH	Continuous	Continuous	7.7	8.9		6.2-9.5	No	
		10/02/25	Temperature	Degrees Celsius	Continuous	Continuous	27.9	38.4		43	No	
		10/02/25	Total suspended solids	mg/L	Daily	31	3	27		50	No	
		10/02/25	Zinc	mg/L	Daily	31	0.291	0.57		5	No	
		10/02/25	Copper (Total)	mg/L	Daily	31	0.007	0.030		N/A	N/A	
		10/02/25	Nickel (Total)	mg/L	Daily	31	0	0.015		N/A	N/A	
		10/02/25	Phosphorous (Total)	mg/L	Daily	31				N/A	N/A	
		38		10/02/25	Flow	kL/day	Daily	31	1985	3312		4500



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Monthly Summary: December 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	10/01/25	Ammonia	mg/L	Daily	31	29	487			N/A	
		10/01/25	Arsenic	mg/L	Daily	31	0.011	0.02		0.05	No	
		10/01/25	Chromium (hexavalent)	mg/L	Daily	31	0.000	0.012	0.05	0.2	No	
		10/01/25	Nitrogen (Total)	mg/L	Daily	31	54	168	1500	2000	No	
		10/01/25	Oil and Grease	mg/L	Twice per Week	10	1.6	1.6		10	No	
		10/01/25	pH	pH	Continuous	Continuous	7.1	9.2		6.2-9.5	No	
		10/01/25	Temperature	Degrees Celsius	Continuous	Continuous	25.2	38.4		43	No	
		10/01/25	Total suspended solids	mg/L	Daily	31	6	15		50	No	
		10/01/25	Zinc	mg/L	Daily	31	0.195	0.639		5	No	
		10/01/25	Copper (Total)	mg/L	Daily	31	0.008	0.023		N/A	N/A	
		10/01/25	Nickel (Total)	mg/L	Daily	31	0	0.008		N/A	N/A	
		10/01/25	Phosphorous (Total)	mg/L	Daily	31	0.439	0.774		N/A	N/A	
		38		10/01/25	Flow	kL/day	Daily	31	2042	3444		4500



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Monthly Summary: November 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	6/12/24	Ammonia	mg/L	Daily	31	32	103			N/A	
		6/12/24	Arsenic	mg/L	Daily	31	0.011	0.02		0.05	No	
		6/12/24	Chromium (hexavalent)	mg/L	Daily	31	0.001	0.021	0.05	0.2	No	
		6/12/24	Nitrogen (Total)	mg/L	Daily	31	55	209	1500	2000	No	
		6/12/24	Oil and Grease	mg/L	Twice per Week	10	1.6	1.6		10	No	
		6/12/24	pH	pH	Continuous	Continuous	6.8	8.7		6.2-9.5	No	
		6/12/24	Temperature	Degrees Celsius	Continuous	Continuous	27.7	40.2		43	No	
		6/12/24	Total suspended solids	mg/L	Daily	31	6	24		50	No	
		6/12/24	Zinc	mg/L	Daily	31	0.234	0.458		5	No	
		6/12/24	Copper (Total)	mg/L	Daily	31	0.010	0.023		N/A	N/A	
		6/12/24	Nickel (Total)	mg/L	Daily	31	0	0.004		N/A	N/A	
		6/12/24	Phosphorous (Total)	mg/L	Daily	31	0.348	0.517		N/A	N/A	
		38		6/12/24	Flow	kL/day	Daily	31	2042	3444		4500



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 Monthly Summary: October 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	13/11/24	Ammonia	mg/L	Daily	31	27	147			N/A	
		13/11/24	Arsenic	mg/L	Daily	31	0.009	0.02		0.05	No	
		13/11/24	Chromium (hexavalent)	mg/L	Daily	31			0.05	0.2	No	
		13/11/24	Nitrogen (Total)	mg/L	Daily	31			1500	2000	No	
		13/11/24	Oil and Grease	mg/L	Twice per Week	10	1.6	1.6		10	No	
		13/11/24	pH	pH	Continuous	Continuous	6.8	8.7		6.2-9.5	No	
		13/11/24	Temperature	Degrees Celsius	Continuous	Continuous	27.7	40.2		43	No	
		13/11/24	Total suspended solids	mg/L	Daily	31				50	No	
		13/11/24	Zinc	mg/L	Daily	31	0.26	0.63		5	No	
		13/11/24	Copper (Total)	mg/L	Daily	31	0.010	0.020		N/A	N/A	
		13/11/24	Nickel (Total)	mg/L	Daily	31	0.001	0.018		N/A	N/A	
		13/11/24	Phosphorous (Total)	mg/L	Daily	31				N/A	N/A	
		38		13/11/24	Flow	kL/day	Daily	31	2042	3444		4500



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Monthly Summary: September 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	4/10/24	Ammonia	mg/L	Daily	31	33	136			N/A	
		4/10/24	Arsenic	mg/L	Daily	31	0.009	0.015		0.05	No	
		4/10/24	Chromium (hexavalent)	mg/L	Daily	31	0.000	0.016	0.05	0.2	No	
		4/10/24	Nitrogen (Total)	mg/L	Daily	31	53	224	1500	2000	No	
		4/10/24	Oil and Grease	mg/L	Twice per Week	8	1.6	1.6		10	No	
		4/10/24	pH	pH	Continuous	Continuous	7.6	8.9		6.2-9.5	No	
		4/10/24	Temperature	Degrees Celsius	Continuous	Continuous	27.0	38.8		43	No	
		4/10/24	Total suspended solids	mg/L	Daily	31	6	12		50	No	
		4/10/24	Zinc	mg/L	Daily	31	0.294	0.581		5	No	
		4/10/24	Copper (Total)	mg/L	Daily	31	0.011	0.025		N/A	N/A	
		4/10/24	Nickel (Total)	mg/L	Daily	31	0.001	0.03		N/A	N/A	
		4/10/24	Phosphorous (Total)	mg/L	Daily	31	0.476	0.68		N/A	N/A	
		38		4/10/24	Flow	kL/day	Daily	31	2411	3353		4500



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 Monthly Summary: August 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	10/09/24	Ammonia	mg/L	Daily	31	32	129			N/A	
		10/09/24	Arsenic	mg/L	Daily	31	0.01	0.02		0.05	No	
		10/09/24	Chromium (hexavalent)	mg/L	Daily	31			0.05	0.2	No	
		10/09/24	Nitrogen (Total)	mg/L	Daily	31	59	221	1500	2000	No	
		10/09/24	Oil and Grease	mg/L	Twice per Week	8	1.6	1.6		10	No	
		10/09/24	pH	pH	Continuous	Continuous	7.1	9.0		6.2-9.5	No	
		10/09/24	Temperature	Degrees Celsius	Continuous	Continuous	24.9	36.2		43	No	
		10/09/24	Total suspended solids	mg/L	Daily	31				50	No	
		10/09/24	Zinc	mg/L	Daily	31	0.197	0.511		5	No	
		10/09/24	Copper (Total)	mg/L	Daily	31	0.009	0.026		N/A	N/A	
		10/09/24	Nickel (Total)	mg/L	Daily	31	0.001	0.017		N/A	N/A	
		10/09/24	Phosphorous (Total)	mg/L	Daily	31				N/A	N/A	
		38		10/09/24	Flow	kL/day	Daily	31	2190	2992		4500



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Monthly Summary: July 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		Ammonia	mg/L	Daily	31					N/A		
			Arsenic	mg/L	Daily	31					0.05	No	
			Chromium (hexavalent)	mg/L	Daily	31				0.05	0.2	No	
			Nitrogen (Total)	mg/L	Daily	31				1500	2000	No	
			Oil and Grease	mg/L	Twice per Week	8					10	No	
			pH	pH	Continuous	Continuous					6.2-9.5	No	
			Temperature	Degrees Celsius	Continuous	Continuous					43	No	
			Total suspended solids	mg/L	Daily	31					50	No	
			Zinc	mg/L	Daily	31					5	No	
			Copper (Total)	mg/L	Daily	31					N/A	N/A	
			Nickel (Total)	mg/L	Daily	31					N/A	N/A	
			Phosphorous (Total)	mg/L	Daily	31					N/A	N/A	
			38			Flow	kL/day	Daily	31				4500



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 Monthly Summary: June 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	8/07/24	Ammonia	mg/L	Daily	30	26	123			N/A	
		8/07/24	Arsenic	mg/L	Daily	30	0.01	0.02		0.05	No	
		8/07/24	Chromium (hexavalent)	mg/L	Daily	30	0.000	0.060	0.05	0.2	No	
		8/07/24	Nitrogen (Total)	mg/L	Daily	30	56	212	1500	2000	No	
		8/07/24	Oil and Grease	mg/L	Twice per Week	9	1.6	1.6		10	No	
		8/07/24	pH	pH	Continuous	Continuous	6.8	8.8		6.2-9.5	No	
		8/07/24	Temperature	Degrees Celsius	Continuous	Continuous	23.4	39.2		43	No	
		8/07/24	Total suspended solids	mg/L	Daily	30	5	13		50	No	
		8/07/24	Zinc	mg/L	Daily	30	0.027	0.471		5	No	
		8/07/24	Copper (Total)	mg/L	Daily	30	0.002	0.027		N/A	N/A	
		8/07/24	Nickel (Total)	mg/L	Daily	30	0.001	0.01		N/A	N/A	
		8/07/24	Phosphorous (Total)	mg/L	Daily	30	0.356	0.553		N/A	N/A	
		38		8/07/24	Flow	kL/day	Daily	30	2305	3715		4500



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 Monthly Summary: May 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	3/06/24	Ammonia	mg/L	Daily	31	15	127			N/A	
		3/06/24	Arsenic	mg/L	Daily	31	0.01	0.02		0.05	No	
		3/06/24	Chromium (hexavalent)	mg/L	Daily	31			0.05	0.2	No	
		3/06/24	Nitrogen (Total)	mg/L	Daily	31	42	220	1500	2000	No	
		3/06/24	Oil and Grease	mg/L	Twice per Week	8	1.6	1.6		10	No	
		3/06/24	pH	pH	Continuous	Continuous	6.8	8.8		6.2-9.5	No	
		3/06/24	Temperature	Degrees Celsius	Continuous	Continuous	22.5	41.5		43	No	
		3/06/24	Total suspended solids	mg/L	Daily	31	6	13		50	No	
		3/06/24	Zinc	mg/L	Daily	31	0.175	0.43		5	No	
		3/06/24	Copper (Total)	mg/L	Daily	31	0.001	0.024		N/A	N/A	
		3/06/24	Nickel (Total)	mg/L	Daily	31	0.002	0.012		N/A	N/A	
		3/06/24	Phosphorous (Total)	mg/L	Daily	31				N/A	N/A	
		38		3/06/24	Flow	kL/day	Daily	31	0.368	0.552		4500



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: April 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	3/05/24	Ammonia	mg/L	Daily	30	34	188			N/A	
		3/05/24	Arsenic	mg/L	Daily	30	0.006	0.018		0.05	No	
		3/05/24	Chromium (hexavalent)	mg/L	Daily	30			0.05	0.2	No	
		3/05/24	Nitrogen (Total)	mg/L	Daily	30	67	357	1500	2000	No	
		3/05/24	Oil and Grease	mg/L	Twice per Week	8	1.6	1.6		10	No	
		3/05/24	pH	pH	Continuous	Continuous	7.0	8.7		6.2-9.5	No	
		3/05/24	Temperature	Degrees Celsius	Continuous	Continuous	22.7	39.5		43	No	
		3/05/24	Total suspended solids	mg/L	Daily	30				50	No	
		3/05/24	Zinc	mg/L	Daily	30	0.127	0.527		5	No	
		3/05/24	Copper (Total)	mg/L	Daily	30	0.009	0.062		N/A	N/A	
		3/05/24	Nickel (Total)	mg/L	Daily	30	0.001	0.011		N/A	N/A	
		3/05/24	Phosphorous (Total)	mg/L	Daily	30				N/A	N/A	
		38		3/05/24	Flow	kL/day	Daily	30	2105	3754		4500