

Stormwater Monitoring Data – EPL 1967 EPL

Year: 2019 calendar year

Licensee Name and Address: Port of Newcastle Operations Pty Ltd; Newcastle Bulk Terminal, Heron Road Kooragang NSW 2304.

Location: Point 3 (Berth K3 Outlet discharge to biofiltration pit)

Type of Monitoring: Discharge water quality monitoring.

Frequency required: Monthly during discharge with exceptions noted below table.

Notes: No limits are specified in EPL 1967.

EPL Link: [Link to EPL 1967](#) on EPA POEO Register

Monitoring location:



Figure: Location of EPL 1967 Point 3 (Google Maps, accessed 2021, approximate)

Analyte	Units	January 2019*	February 2019*	March 2019	April 2019	May 2019*	June 2019
Date sampled	-	-	-	18/03/2019	1/04/2019	-	4/06/2019
pH	pH	-	-	7.89	7.70	-	7.94
Aluminium (dissolved)	mg/L	-	-	<0.1	<0.10	-	0.02
Aluminium (total)	mg/L	-	-	5.35	20.2	-	0.52
Ammonia	mg/L	-	-	0.27	<0.05	-	0.48
Arsenic ** (dissolved)	mg/L	-	-	<0.01	<0.010	-	0.002
Arsenic ** (total)	mg/L	-	-	<0.01	0.011	-	0.002
Cadmium (dissolved)	mg/L	-	-	<0.001	<0.0010	-	<0.0001
Cadmium (total)	mg/L	-	-	<0.001	<0.0010	-	<0.0001
Lead (dissolved)	mg/L	-	-	<0.01	<0.010	-	<0.001
Lead (total)	mg/L	-	-	0.012	0.066	-	0.003
Mercury (dissolved)	mg/L	-	-	<0.0001	<0.0001	-	<0.0001
Mercury (total)	mg/L	-	-	<0.0001	<0.0001	-	<0.0001
Nitrate	mg/L	-	-	1.92	3.3	-	0.53
Nitrite	mg/L	-	-	<0.01	<0.05	-	<0.05
Total Nitrogen	mg/L	-	-	1.9	4.1	-	0.8
Total Kjeldahl Nitrogen	mg/L	-	-	<0.5	0.8	-	0.3
Phosphate	mg/L	-	-	1.06	2.42	-	1.07
Phosphorus (dissolved reactive)	mg/L	-	-	0.23	0.45	-	0.28
Phosphorus (total)	mg/L	-	-	0.35	0.79	-	0.35
Sulfate	mg/L	-	-	285	1860	-	2430
Sulfur	mg/L	-	-	2620	2050	-	2690
Sulfide (dissolved)	mg/L	-	-	<0.1	<0.1	-	<0.1
Total Suspended Solids	mg/L	-	-	97	319	-	7
Zinc (dissolved)	mg/L	-	-	<0.05	<0.050	-	0.036
Zinc (total)	mg/L	-	-	0.059	0.33	-	0.08

* insufficient rainfall for sample collection

** only required to be monitored following Sulphate of Ammonia operation

Results are continued on next page.

Analyte	Units	July 2019*	August 2019*	Sept 2019	Oct 2019*	Nov 2019*	Dec 2019*
Date sampled	-	-	-	18/09/2019	-	-	-
pH	pH	-	-	7.50	-	-	-
Aluminium (dissolved)	mg/L	-	-	<0.1	-	-	-
Aluminium (total)	mg/L	-	-	17.4	-	-	-
Ammonia	mg/L	-	-	0.87	-	-	-
Arsenic ** (dissolved)	mg/L	-	-	<0.01	-	-	-
Arsenic ** (total)	mg/L	-	-	<0.01	-	-	-
Cadmium (dissolved)	mg/L	-	-	<0.001	-	-	-
Cadmium (total)	mg/L	-	-	<0.001	-	-	-
Lead (dissolved)	mg/L	-	-	<0.01	-	-	-
Lead (total)	mg/L	-	-	0.056	-	-	-
Mercury (dissolved)	mg/L	-	-	<0.0001	-	-	-
Mercury (total)	mg/L	-	-	<0.0001	-	-	-
Nitrate	mg/L	-	-	7.19	-	-	-
Nitrite	mg/L	-	-	7.19	-	-	-
Total Nitrogen	mg/L	-	-	10.3	-	-	-
Total Kjeldahl Nitrogen	mg/L	-	-	3.1	-	-	-
Phosphate	mg/L	-	-	2.61	-	-	-
Phosphorus (dissolved reactive)	mg/L	-	-	0.72	-	-	-
Phosphorus (total)	mg/L	-	-	0.85	-	-	-
Sulfate	mg/L	-	-	2,240	-	-	-
Sulfur	mg/L	-	-	3,200	-	-	-
Sulfide (dissolved)	mg/L	-	-	<0.1	-	-	-
Total Suspended Solids	mg/L	-	-	634	-	-	-
Zinc (dissolved)	mg/L	-	-	<0.05	-	-	-
Zinc (total)	mg/L	-	-	0.257	-	-	-

* insufficient rainfall for sample collection

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