

Stormwater Monitoring Data – EPL 1967

Year: 2022 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 2022, approximate)

Analyte	Units	January 2022	February 2022	March 2022	April 2022	May 2022	June 2022
Date sampled	-	19/01/2022	04/02/2022	01/03/2022			
Date results received	-	25/02/2022	07/03/2022	29/03/2022			
Date published	-	02/03/2022	09/03/2022	01/04/2022			
pH	pH	7.57	7.73	7.6			
Aluminium (dissolved)	mg/L	<0.10	0.03	<0.1			
Aluminium (total)	mg/L	0.12	0.59	1.2			
Ammonia	mg/L	<0.05	1.21	0.32			
Arsenic ** (dissolved)	mg/L	<0.010	0.001	<0.01			
Arsenic ** (total)	mg/L	<0.010	<0.001	<0.01			
Cadmium (dissolved)	mg/L	<0.0010	<0.0010	<0.001			
Cadmium (total)	mg/L	<0.0010	<0.0001	<0.001			
Lead (dissolved)	mg/L	<0.010	<0.010	<0.01			
Lead (total)	mg/L	<0.010	0.001	<0.01			
Mercury (dissolved)	mg/L	<0.0001	<0.0001	<0.0001			
Mercury (total)	mg/L	<0.0001	<0.0001	<0.0001			
Nitrate	mg/L	1	12.1	1.76			
Nitrite	mg/L	<0.05	<0.05	<0.05			
Total Nitrogen	mg/L	1.3	13.3	2.4			
Total Kjeldahl Nitrogen	mg/L	0.3	1.2	0.6			
Phosphate	mg/L	0.55	0.81	1.08			
Phosphorus (dissolved reactive)	mg/L	0.22	0.2	0.39			
Phosphorus (total)	mg/L	0.18	0.26	0.35			
Sulfate	mg/L	2170	1890	1940			
Sulfur	mg/L	2330	1790	1940			
Sulfide (dissolved)	mg/L	<0.1	0.1	<0.1			
Total Suspended Solids	mg/L	25	14	122			
Zinc (dissolved)	mg/L	0.207	0.024	<0.05			
Zinc (total)	mg/L	0.11	0.028	<0.052			

* insufficient rainfall for sample collection

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

Results are continued on next page.

Analyte	Units	July 2022	August 2022	Sept 2022	Oct 2022	Nov 2022	Dec 2022
Date sampled	-						
Date results received	-						
Date published	-						
pH	pH						
Aluminium (dissolved)	mg/L						
Aluminium (total)	mg/L						
Ammonia	mg/L						
Arsenic ** (dissolved)	mg/L						
Arsenic ** (total)	mg/L						
Cadmium (dissolved)	mg/L						
Cadmium (total)	mg/L						
Lead (dissolved)	mg/L						
Lead (total)	mg/L						
Mercury (dissolved)	mg/L						
Mercury (total)	mg/L						
Nitrate	mg/L						
Nitrite	mg/L						
Total Nitrogen	mg/L						
Total Kjeldahl Nitrogen	mg/L						
Phosphate	mg/L						
Phosphorus (dissolved reactive)	mg/L						
Phosphorus (total)	mg/L						
Sulfate	mg/L						
Sulfur	mg/L						
Sulfide (dissolved)	mg/L						
Total Suspended Solids	mg/L						
Zinc (dissolved)	mg/L						
Zinc (total)	mg/L						

* insufficient rainfall for sample collection

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