

## Stormwater Monitoring Data – EPL 1967 EPL

**Year:** 2021 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 2021	February 2021 *	March 2021	April 2021 *	May 2021 *	June 2021
Date sampled	-	28/01/2021	-	18/03/2021	-	-	
Date results received	-	25/02/2021	30/03/2021	14/05/2021	11/06/2021	9/07/2021	
Date published	-	19/04/2021	19/04/2021	18/05/2021	24/06/2021	13/07/2021	
pH	pH	6.58	-	7.47	-	-	
Aluminium (dissolved)	mg/L	0.08	-	<0.1	-	-	
Aluminium (total)	mg/L	2.48	-	0.35	-	-	
Ammonia	mg/L	<0.1	-	0.1	-	-	
Arsenic ** (dissolved)	mg/L	0.001	-	<0.01	-	-	
Arsenic ** (total)	mg/L	0.002	-	<0.01	-	-	
Cadmium (dissolved)	mg/L	0.0002	-	<0.001	-	-	
Cadmium (total)	mg/L	<0.002	-	<0.001	-	-	
Lead (dissolved)	mg/L	<0.001	-	<0.01	-	-	
Lead (total)	mg/L	0.005	-	<0.01	-	-	
Mercury (dissolved)	mg/L	<0.0001	-	<0.0001	-	-	
Mercury (total)	mg/L	<0.0001	-	<0.0001	-	-	
Nitrate	mg/L	82.6	-	0.61	-	-	
Nitrite	mg/L	1.06	-	<0.05	-	-	
Total Nitrogen	mg/L	90.8	-	9	-	-	
Total Kjeldahl Nitrogen	mg/L	7	-	8.4	-	-	
Phosphate	mg/L	7.97	-	0.9	-	-	
Phosphorus (dissolved reactive)	mg/L	1.4	-	0.27	-	-	
Phosphorus (total)	mg/L	2.6	-	0.3	-	-	
Sulfate	mg/L	860	-	2020	-	-	
Sulfur	mg/L	920	-	2560	-	-	
Sulfide (dissolved)	mg/L	<0.1	-	<0.1	-	-	
Total Suspended Solids	mg/L	75	-	<5	-	-	
Zinc (dissolved)	mg/L	0.136	-	<0.05	-	-	
Zinc (total)	mg/L	0.16	-	0.66	-	-	

\* insufficient rainfall for sample collection

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

Results are continued on next page.

Analyte	Units	July 2021	August 2021	Sept 2021	Oct 2021	Nov 2021	Dec 2021
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