

Brou Landfill Facility - 3rd Quarter Result Summary - May 2021 to July 2021

Licensee: Eurobodalla Shire Council

EPL No.: 5881

Premises: Brou Landfill Facility

Address: Brou Lake Road, Dalmeny NSW 2546

EPL Link: <http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32802&SYSUID=1&LICID=5881>

POEO Public Register: <http://www.epa.nsw.gov.au/prpoeoapp/>

Licence Period: 30-Oct-20 to 29-Oct-21

Sample Period: 01-May-21 to 31-July-21 (3rd Quarter)



Anniversary Date: 30-Oct-20

Published Date: 25-Jun-21

Licence Point 1 - BR809 Groundwater Quarterly Parameters

Sample Frequency	Quarterly
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Quarterly Result Sample Date 03/06/21 Obtained Date 24/06/21	Comment
Alkalinity as CaCO ₃	(mg/L CaCO ₃)	115	
Calcium (Dissolved)	(mg/L)	8.83	
Chloride	(mg/L)	730	
Magnesium	(mg/L)	111	
Nitrogen (Ammonia)	(mg/L)	<0.01	
pH	(pH)	6.3	
Potassium	(mg/L)	7.10	
Sodium	(mg/L)	270	
Standing Water Level	(m)	25.15	
Sulfate	(mg/L)	7.5	
Total Dissolved Solids (TDS)	(mg/L)	1220	
Total Organic Carbon (TOC)	(mg/L)	5.7	

Licence Point 2 - BR810 Groundwater Quarterly Parameters

Sample Frequency	Quarterly
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Quarterly Result Sample Date 03/06/21 Obtained Date 24/06/21	Comment
Alkalinity as CaCO ₃	(mg/L CaCO ₃)	139	
Calcium (Dissolved)	(mg/L)	7.74	
Chloride	(mg/L)	850	
Magnesium	(mg/L)	80.8	
Nitrogen (Ammonia)	(mg/L)	0.01	
pH	(pH)	6.4	
Potassium	(mg/L)	1.5	
Sodium	(mg/L)	508	
Standing Water Level	(m)	0.8	
Sulfate	(mg/L)	130	
Total Dissolved Solids (TDS)	(mg/L)	1644	
Total Organic Carbon (TOC)	(mg/L)	8.1	

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Licence Point 3 - BR811 Groundwater Quarterly Parameters

Sample Frequency	Quarterly
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Quarterly Result		Comment
		Sample Date 03/06/21	Obtained Date 24/06/21	
Alkalinity as CaCO ₃	(mg/L CaCO ₃)	124		
Calcium (Dissolved)	(mg/L)	9.92		
Chloride	(mg/L)	900		
Magnesium	(mg/L)	87.3		
Nitrogen (Ammonia)	(mg/L)	0.23		
pH	(pH)	6.5		
Potassium	(mg/L)	2.4		
Sodium	(mg/L)	480		
Standing Water Level	(m)	2.7		
Sulfate	(mg/L)	100		
Total Dissolved Solids (TDS)	(mg/L)	1624		
Total Organic Carbon (TOC)	(mg/L)	6.6		

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Licence Point 4 - BR807 Downstream Surfacewater Parameters

Sample Frequency	Weekly during any discharge
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Sample Event 1 Sampling Date 06/05/21 Obtained Date 22/05/21	Sample Event 2 Sampling Date Obtained Date	Sample Event 3 Sampling Date Obtained Date	Comment
Alkalinity as CaCO ₃	(mg/L)	70			6/05/2021 - Overflow from Sediment Pond
Aluminium	(mg/L)	10.4			
Ammonia	(mg/L)	0.01			
Arsenic	(mg/L)	0.0026			
Barium	(mg/L)	0.143			
Bromide	(mg/L)	0.17			
BTEX	(mg/L)	<0.0004			
Cadmium	(mg/L)	<0.0001			
Calcium	(mg/L)	27.4			
Chloride	(mg/L)	62			
Chromium	(mg/L)	0.0128			
Cobalt	(mg/L)	0.0014			
Conductivity	(µS/cm)	43.2			
Copper	(mg/L)	0.0130			
Dissolved Oxygen	(mg/L)	8.03			
Fluoride	(mg/L)	0.05			
Lead	(mg/L)	0.0067			
Magnesium	(mg/L)	8.52			
Manganese	(mg/L)	0.0720			
Mercury	(mg/L)	<0.0003			
Nitrate	(mg/L)	0.3			
Nitrite	(mg/L)	0.020			
Nitrogen (Total)	(mg/L)	2.00			
Oxidised Nitrogen	(mg/L)	0.32			
pH	pH Units	7.4			
Phosphorus (Total)	(mg/L)	0.115			
Polycyclic Aromatic Hydrocarbons	(mg/L)	<0.0001			
Potassium	(mg/L)	18.5			
Sodium	(mg/L)	35.2			
Sulphate	(mg/L)	37			
Sulfur	(mg/L)	12.9			
TKN	(mg/L)	1.68			
Total Organic Carbon	(mg/L)	23.7			
Total Petroleum Hydrocarbons	(mg/L)	<0.2			
Total Suspended Solids (TSS)	(mg/L)	57			
Zinc	(mg/L)	0.020			

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Licence Point 5 - BR808 Upstream Surfacewater Quarterly Parameters

Sample Frequency	Weekly during any discharge
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Sample Event 1 Sampling Date 06/05/21 Obtained Date 22/05/21	Sample Event 2 Sampling Date Obtained Date	Sample Event 3 Sampling Date Obtained Date	Comments
Alkalinity as CaCO ₃	(mg/L)	<5			06/05/21 - Overflow from Sediment Pond
Aluminium	(mg/L)	42			
Ammonia	(mg/L)	0.01			
Arsenic	(mg/L)	0.0070			
Barium	(mg/L)	0.214			
Bromide	(mg/L)	<0.1			
BTEX	(mg/L)	<0.0004			
Cadmium	(mg/L)	0.0004			
Calcium	(mg/L)	1.16			
Chloride	(mg/L)	25			
Chromium	(mg/L)	0.0338			
Cobalt	(mg/L)	0.0014			
Conductivity	(µS/cm)	10.4			
Copper	(mg/L)	0.0061			
Dissolved Oxygen	(mg/L)	7.72			
Fluoride	(mg/L)	<0.05			
Lead	(mg/L)	0.0156			
Magnesium	(mg/L)	2.8			
Manganese	(mg/L)	0.0679			
Mercury	(mg/L)	<0.0003			
Nitrate	(mg/L)	<0.01			
Nitrite	(mg/L)	0.006			
Nitrogen (Total)	(mg/L)	0.5			
Oxidised Nitrogen	(mg/L)	0.01			
pH	pH Units	5.5			
Phosphorus (Total)	(mg/L)	0.037			
Polycyclic Aromatic Hydrocarbons	(mg/L)	<0.0001			
Potassium	(mg/L)	2.6			
Sodium	(mg/L)	12.1			
Sulphate	(mg/L)	2.5			
Sulphur	(mg/L)	1.21			
TKN	(mg/L)	0.49			
Total Organic Carbon	(mg/L)	24.8			
Total Petroleum Hydrocarbons	(mg/L)	<0.2			
Total Suspended Solids (TSS)	(mg/L)	140			
Zinc	(mg/L)	0.022			

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Licence Point 6 - BR801 Stormwater Quarterly Parameters

Sample Frequency	Quarterly
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Quarterly Result	Additional Result	Additional Result	Comment
		Sample Date 03/06/21 Obtained Date 24/06/21	Sample Date 06/05/21 Obtained Date 22/05/21	Sample Date Obtained Date	
Nitrogen (Ammonia)	(mg/L CaCO ₃)	0.55	0.12		06/05/21 - Overflow from Sediment Pond
pH	pH Units	7.7	8.0		
Total Suspended Solids (TSS)	(mg/L)	3	160		