

## Brou Landfill Facility - 4th Quarter Result Summary - August 2021 to October 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-August-21 to 29-October-21 (4th Quarter)



Anniversary Date: 30-Oct-20

Published Date: 18-Nov-21

### Licence Point 1 - BR809 Groundwater Quarterly Parameters

Sample Frequency	Quarterly
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Quarterly Result Sample Date 07/10/21 Obtained Date 16/10/21	Comment
Alkalinity as CaCO <sub>3</sub>	(mg/L CaCO <sub>3</sub> )	118	
Calcium (Dissolved)	(mg/L)	8.61	
Chloride	(mg/L)	740	
Magnesium	(mg/L)	103	
Nitrogen (Ammonia)	(mg/L)	<0.01	
pH	(pH)	6.2	
Potassium	(mg/L)	6.70	
Sodium	(mg/L)	257	
Standing Water Level	(m)	24.95	
Sulfate	(mg/L)	6.4	
Total Dissolved Solids (TDS)	(mg/L)	1525	
Total Organic Carbon (TOC)	(mg/L)	1.2	

### Licence Point 2 - BR810 Groundwater Quarterly Parameters

Sample Frequency	Quarterly
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Quarterly Result Sample Date 07/10/21 Obtained Date 16/10/21	Comment
Alkalinity as CaCO <sub>3</sub>	(mg/L CaCO <sub>3</sub> )	144	
Calcium (Dissolved)	(mg/L)	7.01	
Chloride	(mg/L)	900	
Magnesium	(mg/L)	72.2	
Nitrogen (Ammonia)	(mg/L)	0.01	
pH	(pH)	6.4	
Potassium	(mg/L)	1.7	
Sodium	(mg/L)	473	
Standing Water Level	(m)	0.80	
Sulfate	(mg/L)	130	
Total Dissolved Solids (TDS)	(mg/L)	1915	
Total Organic Carbon (TOC)	(mg/L)	2.4	

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### Licence Point 3 - BR811 Groundwater Quarterly Parameters

Sample Frequency	Quarterly
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Quarterly Result Sample Date 07/10/21 Obtained Date 16/10/21	Comment
Alkalinity as CaCO <sub>3</sub>	(mg/L CaCO <sub>3</sub> )	126	
Calcium (Dissolved)	(mg/L)	10.1	
Chloride	(mg/L)	890	
Magnesium	(mg/L)	77.6	
Nitrogen (Ammonia)	(mg/L)	0.01	
pH	(pH)	6.4	
Potassium	(mg/L)	2.50	
Sodium	(mg/L)	447	
Standing Water Level	(m)	2.60	
Sulfate	(mg/L)	94	
Total Dissolved Solids (TDS)	(mg/L)	1895	
Total Organic Carbon (TOC)	(mg/L)	1.4	

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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 07/09/21 Obtained Date 23/09/21	Sample Event 2 Sampling Date 21/10/21 Obtained Date 12/11/21	Sample Event 3 Sampling Date Obtained Date	Comment
Alkalinity as CaCO <sub>3</sub>	(mg/L)	60	67		07/09/2021 - Overflow from Sediment Pond
Aluminium	(mg/L)	0.042	0.10		
Ammonia	(mg/L)	0.01	0.02		21/10/2021 - Overflow from Sediment Pond. Dissolved Oxygen measured using multimeter
Anions*	(mg/L)	196.38	116.24		
Arsenic	(mg/L)	<0.02	<0.02		
Barium	(mg/L)	0.0358	0.038		*Anions include chloride, sulphate, bromide and fluoride
Bromide	(mg/L)	0.32	0.17		
BTEX	(mg/L)	<0.0004	<0.0004		**Cations include calcium, sodium, magnesium and potassium
Cadmium	(mg/L)	<0.005	<0.005		
Calcium	(mg/L)	24.5	26.4		
Cations**	(mg/L)	109.70	95.30		
Chloride	(mg/L)	160	89		
Chromium	(mg/L)	<0.005	<0.005		
Cobalt	(mg/L)	<0.005	<0.005		
Conductivity	(µS/cm)	682	49.5		
Copper	(mg/L)	<0.005	0.006		
Dissolved Oxygen	(mg/L)	10.12	11.61		
Fluoride	(mg/L)	0.06	0.07		
Lead	(mg/L)	<0.01	<0.01		
Magnesium	(mg/L)	13.1	11.1		
Manganese	(mg/L)	0.053	0.068		
Mercury	(mg/L)	<0.0003	<0.0003		
Nitrate	(mg/L)	<0.01	0.07		
Nitrite	(mg/L)	0.003	0.042		
Nitrogen (Total)	(mg/L)	1.17	1.64		
Oxidised Nitrogen	(mg/L)	<0.01	0.11		
pH	pH Units	8.3	7.2		
Phosphorus (Total)	(mg/L)	0.036	0.099		
Polycyclic Aromatic Hydrocarbons	(mg/L)	<0.0001	<0.0001		
Potassium	(mg/L)	12.4	14.0		
Sodium	(mg/L)	59.7	43.8		
Sulphate	(mg/L)	36	27		
Sulfur	(mg/L)	10.9	10.7		
TKN	(mg/L)	1.17	1.53		
Total Organic Carbon	(mg/L)	20.4	21.9		
Total Petroleum Hydrocarbons	(mg/L)	<0.2	2.6		
Total Suspended Solids (TSS)	(mg/L)	15	47		
Zinc	(mg/L)	0.001	0.01		

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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 07/09/21 Obtained Date	Sample Event 2 Sampling Date 21/10/21 Obtained Date	Sample Event 3 Sampling Date Obtained Date	Comments
Alkalinity as CaCO <sub>3</sub>	(mg/L)				07/09/21 - Overflow from Sediment Pond. Site dry, no sample collected.
Aluminium	(mg/L)				
Ammonia	(mg/L)				21/10/21 - Overflow from Sediment Pond. Site dry, no sample collected.
Arsenic	(mg/L)				
Barium	(mg/L)				
Bromide	(mg/L)				
BTEX	(mg/L)				
Cadmium	(mg/L)				
Calcium	(mg/L)				
Chloride	(mg/L)				
Chromium	(mg/L)				
Cobalt	(mg/L)				
Conductivity	(µS/cm)				
Copper	(mg/L)				
Dissolved Oxygen	(mg/L)				
Fluoride	(mg/L)				
Lead	(mg/L)				
Magnesium	(mg/L)				
Manganese	(mg/L)				
Mercury	(mg/L)				
Nitrate	(mg/L)				
Nitrite	(mg/L)				
Nitrogen (Total)	(mg/L)				
Oxidised Nitrogen	(mg/L)				
pH	pH Units				
Phosphorus (Total)	(mg/L)				
Polycyclic Aromatic Hydrocarbons	(mg/L)				
Potassium	(mg/L)				
Sodium	(mg/L)				
Sulphate	(mg/L)				
Sulphur	(mg/L)				
TKN	(mg/L)				
Total Organic Carbon	(mg/L)				
Total Petroleum Hydrocarbons	(mg/L)				
Total Suspended Solids (TSS)	(mg/L)				
Zinc	(mg/L)				

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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 07/10/21 Obtained Date 14/10/21	Sample Date 07/09/21 Obtained Date 23/09/21	Sample Date 21/10/21 Obtained Date 12/11/21	
Nitrogen (Ammonia)	(mg/L)	1.32	1.60	1.76	07/09/21 - Overflow from Sediment Pond
pH	pH Units	7.9	7.6	7.4	21/10/21 - Overflow from Sediment Pond
Total Suspended Solids (TSS)	(mg/L)	10	10	370	