

## Brou Landfill Facility - 1st Quarter Result Summary - Oct 2021 to Jan 2022



Anniversary Date: 30-Oct-21  
Published Date: 25-Jan-22

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-21 to 29-Oct-22  
Sample Period: 30-Oct-21 to 31-Jan-22 (1st Quarter)

### Licence Point 1 - BR809 (Upper) Groundwater Quarterly Parameters

Sample Frequency	Quarterly
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Quarterly Result Sample Date 13/01/22 Obtained Date 22/01/22	Comment
Alkalinity as CaCO <sub>3</sub>	(mg/L CaCO <sub>3</sub> )	114	
Calcium (Dissolved)	(mg/L)	9.24	
Chloride	(mg/L)	710	
Magnesium	(mg/L)	124	
Nitrogen (Ammonia)	(mg/L)	<0.01	
pH	(pH)	6.5	
Potassium	(mg/L)	7.2	
Sodium	(mg/L)	285	
Standing Water Level	(m)	24.8	
Sulfate	(mg/L)	7.3	
Total Dissolved Solids (TDS)	(mg/L)	1640	
Total Organic Carbon (TOC)	(mg/L)	1	

### Licence Point 2 - BR810 (Lower) Groundwater Quarterly Parameters

Sample Frequency	Quarterly
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Quarterly Result Sample Date 13/01/22 Obtained Date 22/01/22	Comment
Alkalinity as CaCO <sub>3</sub>	(mg/L CaCO <sub>3</sub> )	138	
Calcium (Dissolved)	(mg/L)	8.13	
Chloride	(mg/L)	920	
Magnesium	(mg/L)	89.5	
Nitrogen (Ammonia)	(mg/L)	<0.01	
pH	(pH)	6.4	
Potassium	(mg/L)	1.8	
Sodium	(mg/L)	536	
Standing Water Level	(m)	0.8	
Sulfate	(mg/L)	130	
Total Dissolved Solids (TDS)	(mg/L)	1830	
Total Organic Carbon (TOC)	(mg/L)	<0.2	

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### Licence Point 3 - BR811 (Mid) Groundwater Quarterly Parameters

Sample Frequency	Quarterly
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Quarterly Result		Comment
		Sample Date 13/01/22	Obtained Date 22/01/22	
Alkalinity as CaCO <sub>3</sub>	(mg/L CaCO <sub>3</sub> )	119		
Calcium (Dissolved)	(mg/L)	10.5		
Chloride	(mg/L)	970		
Magnesium	(mg/L)	99.5		
Nitrogen (Ammonia)	(mg/L)	<0.01		
pH	(pH)	6.4		
Potassium	(mg/L)	2.8		
Sodium	(mg/L)	526		
Standing Water Level	(m)	2.30		
Sulfate	(mg/L)	100		
Total Dissolved Solids (TDS)	(mg/L)	1990		
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 29/11/21 Obtained Date 16/12/21	Sample Event 2 Sampling Date 13/12/21 Obtained Date 24/12/21	Comment
Alkalinity as CaCO <sub>3</sub>	(mg/L)	122	80	26/11/21 - Overflow from sediment pond
Aluminium	(mg/L)	0.042	0.08	
Ammonia	(mg/L)	0.01	0.01	10/12/21 - Overflow from Sediment Pond
Arsenic	(mg/L)	<0.02	<0.02	
Barium	(mg/L)	0.0404	0.03	Dissolved oxygen field readings only
BTEX	(mg/L)	0.00065	0.00065	
Cadmium	(mg/L)	<0.005	<0.005	
Calcium	(mg/L)	31.7	21.1	
Chloride	(mg/L)	110	96	
Chromium	(mg/L)	<0.005	<0.005	
Cobalt	(mg/L)	<0.005	<0.005	
Conductivity	(µS/cm)	60.3	46.9	
Copper	(mg/L)	0.0036	0.006	
Dissolved Oxygen	(mg/L)	9.45	10.53	
Fluoride	(mg/L)	0.07	0.07	
Lead	(mg/L)	0.0001	<0.01	
Magnesium	(mg/L)	14.6	11.0	
Manganese	(mg/L)	0.167	0.058	
Mercury	(mg/L)	<0.0003	<0.0003	
Nitrate	(mg/L)	<0.01	<0.01	
Nitrite	(mg/L)	0.006	0.006	
Nitrogen (Total)	(mg/L)	1.99	1.54	
Oxidised Nitrogen	(mg/L)	0.01	0.01	
pH	pH Units	7.6	7.6	
Phosphorus (Total)	(mg/L)	0.041	0.055	
Polycyclic Aromatic Hydrocarbons	(mg/L)	<0.0001	<0.0001	
Potassium	(mg/L)	20.0	14.3	
Sodium	(mg/L)	51.8	44.1	
Sulfate	(mg/L)	2.0	7.2	
Sulfur	(mg/L)	1.59	2.92	
Total Organic Carbon	(mg/L)	34.1	35.0	
Total Petroleum Hydrocarbons	(mg/L)	0.1	<0.2	
Total Suspended Solids (TSS)	(mg/L)	5	9	
Zinc	(mg/L)	0.002	<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 29/11/21	Sample Event 2 Sampling Date 13/12/21	Comment
Alkalinity as CaCO <sub>3</sub>	(mg/L)			29/11/21 - Overflow from Sediment Pond. No flow at site BR808 (Licence Point 5), Insufficient volume for sample and analysis.
Aluminium	(mg/L)			
Ammonia	(mg/L)			13/12/21 - Overflow from Sediment Pond. No flow at site BR808 (Licence Point 5), Insufficient volume for sample and analysis.
Arsenic	(mg/L)			
Barium	(mg/L)			
BTEX	(mg/L)			
Cadmium	(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)			
Sulfate	(mg/L)			
Sulfur	(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 Sediment Pond Quarterly Parameters

Sample Frequency	Quarterly
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Quarterly Result	Additional Result	Additional Result	Comment
		Sample Date 25/11/21 Obtained Date 07/12/21	Sample Date 29/11/21 Obtained Date 16/12/21	Sample Date 13/12/21 Obtained Date 24/12/21	
Nitrogen (Ammonia)	(mg/L CaCO <sub>3</sub> )	6.02	7.48	5.37	
pH	pH Units	7.9	7.5	7.8	
Total Suspended Solids (TSS)	(mg/L)	38	40	87	