

Brou Landfill Facility - 4th Quarter Result Summary - Aug 2022 to Oct 2022



Anniversary Date: 30-Oct-22
Published Date: 13-Nov-23

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-22 to 29-Oct-23
Sample Period: 01-Aug-23 to 29-Oct-23 (4th Quarter)

Licence Point 1 - BR809 (Upper) Groundwater Quarterly Parameters

Sample Frequency	Quarterly
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Quarterly Result		Comment
		Sample Date 24/10/23	Obtained Date 08/11/23	
Alkalinity as CaCO ₃	(mg/L CaCO ₃)	125		
Calcium (Dissolved)	(mg/L)	11.30		
Chloride	(mg/L)	730		
Magnesium	(mg/L)	115.0		
Nitrogen (Ammonia)	(mg/L)	0.02		
pH	(pH)	8		
Potassium	(mg/L)	7.9		
Sodium	(mg/L)	319		
Standing Water Level	(m)	24.0		
Sulfate	(mg/L)	22		
Total Dissolved Solids (TDS)	(mg/L)	1630		
Total Organic Carbon (TOC)	(mg/L)	1.7		

Licence Point 2 - BR810 (Lower) Groundwater Quarterly Parameters

Sample Frequency	Quarterly
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Quarterly Result		Comment
		Sample Date 24/10/23	Obtained Date 08/11/23	
Alkalinity as CaCO ₃	(mg/L CaCO ₃)	147		
Calcium (Dissolved)	(mg/L)	8.21		
Chloride	(mg/L)	920		
Magnesium	(mg/L)	86.7		
Nitrogen (Ammonia)	(mg/L)	0.02		
pH	(pH)	8		
Potassium	(mg/L)	1.7		
Sodium	(mg/L)	570		
Standing Water Level	(m)	1.1		
Sulfate	(mg/L)	290		
Total Dissolved Solids (TDS)	(mg/L)	2250		
Total Organic Carbon (TOC)	(mg/L)	3.5		

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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 24/10/23	Obtained Date 08/11/23	
Alkalinity as CaCO ₃	(mg/L CaCO ₃)	115		
Calcium (Dissolved)	(mg/L)	12.1		
Chloride	(mg/L)	990		
Magnesium	(mg/L)	105		
Nitrogen (Ammonia)	(mg/L)	0.05		
pH	(pH)	8		
Potassium	(mg/L)	2.8		
Sodium	(mg/L)	551		
Standing Water Level	(m)	2.95		
Sulfate	(mg/L)	200		
Total Dissolved Solids (TDS)	(mg/L)	2270		
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 Obtained Date	Sample Event 2 Sampling Date Obtained Date	Comment
Alkalinity as CaCO ₃	(mg/L)			No discharge recorded during 4th Quarter
Aluminium	(mg/L)			
Ammonia	(mg/L)			
Arsenic	(mg/L)			
Barium	(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)			
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 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	Sample Event 2 Sampling Date	Comment
Alkalinity as CaCO ₃	(mg/L)			No discharge recorded during 4th Quarter
Aluminium	(mg/L)			
Ammonia	(mg/L)			
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 24/10/23 Obtained Date 08/11/23	Sample Date Obtained Date	Sample Date Obtained Date	
Nitrogen (Ammonia)	(mg/L)	1.3			Sediment Pond volume very low
pH	pH Units	7.7			
Total Suspended Solids (TSS)	(mg/L)	66			