

## Brou Landfill Facility - 3rd Quarter Result Summary - May 2023 to Jul 2023



Anniversary Date: 30-Oct-22  
Published Date: 14-Aug-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-May-23 to 31-Jul-23 (3rd 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 27/07/23	Obtained Date 11/08/23	
Alkalinity as CaCO <sub>3</sub>	(mg/L CaCO <sub>3</sub> )	117		
Calcium (Dissolved)	(mg/L)	11.4		
Chloride	(mg/L)	740		
Magnesium	(mg/L)	108		
Nitrogen (Ammonia)	(mg/L)	<0.01		
pH	(pH)	6.3		
Potassium	(mg/L)	7.6		
Sodium	(mg/L)	312		
Standing Water Level	(m)	23.7		
Sulfate	(mg/L)	10		
Total Dissolved Solids (TDS)	(mg/L)	1495		
Total Organic Carbon (TOC)	(mg/L)	1.8		

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

Sample Frequency	Quarterly
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Quarterly Result		Comment
		Sample Date 27/07/23	Obtained Date 11/08/23	
Alkalinity as CaCO <sub>3</sub>	(mg/L CaCO <sub>3</sub> )	134		
Calcium (Dissolved)	(mg/L)	8.26		
Chloride	(mg/L)	990		
Magnesium	(mg/L)	85.4		
Nitrogen (Ammonia)	(mg/L)	0.01		
pH	(pH)	6.4		
Potassium	(mg/L)	1.6		
Sodium	(mg/L)	538		
Standing Water Level	(m)	0.6		
Sulfate	(mg/L)	140		
Total Dissolved Solids (TDS)	(mg/L)	1555		
Total Organic Carbon (TOC)	(mg/L)	3.9		

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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 27/07/23	Obtained Date 11/08/23	
Alkalinity as CaCO <sub>3</sub>	(mg/L CaCO <sub>3</sub> )	108		
Calcium (Dissolved)	(mg/L)	11.7		
Chloride	(mg/L)	950		
Magnesium	(mg/L)	105		
Nitrogen (Ammonia)	(mg/L)	0.02		
pH	(pH)	6.5		
Potassium	(mg/L)	2.9		
Sodium	(mg/L)	542		
Standing Water Level	(m)	2.45		
Sulfate	(mg/L)	99		
Total Dissolved Solids (TDS)	(mg/L)	1750		
Total Organic Carbon (TOC)	(mg/L)	2.7		

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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 <sub>3</sub>	(mg/L)			No overflows reported May - July 2023
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 <sub>3</sub>	(mg/L)			No overflows reported May - July 2023
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 06/06/23 Obtained Date 27/06/23	Sample Date 12/07/23 Obtained Date 20/07/23	Sample Date Obtained Date	
Nitrogen (Ammonia)	(mg/L)	2.29	2.6		
pH	pH Units	7.9	8		
Total Suspended Solids (TSS)	(mg/L)	7	14		