

Brou Landfill Facility - 3rd Quarter Result Summary - May 2024 to Jul 2024



Anniversary Date: 30-Oct-23
Published Date: 14-Oct-24

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-23 to 29-Oct-24
 Sample Period: 01-May-24 to 31-Jul-24 (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 30/07/24	Obtained Date 18/08/24	
Alkalinity as CaCO ₃	(mg/L CaCO ₃)	134		
Calcium (Dissolved)	(mg/L)	13.60		
Chloride	(mg/L)	770		
Magnesium	(mg/L)	114		
Nitrogen (Ammonia)	(mg/L)	<0.01		
pH	(pH)	6.3		
Potassium	(mg/L)	7.3		
Sodium	(mg/L)	309		
Standing Water Level	(m)	24		
Sulfate	(mg/L)	9.1		
Total Dissolved Solids (TDS)	(mg/L)	1594		
Total Organic Carbon (TOC)	(mg/L)	2.9		

Licence Point 2 - BR810 (Lower) Groundwater Quarterly Parameters

Sample Frequency	Quarterly
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Quarterly Result		Comment
		Sample Date 30/07/24	Obtained Date 18/08/24	
Alkalinity as CaCO ₃	(mg/L CaCO ₃)	149		
Calcium (Dissolved)	(mg/L)	8.03		
Chloride	(mg/L)	940		
Magnesium	(mg/L)	81.8		
Nitrogen (Ammonia)	(mg/L)	0.01		
pH	(pH)	7		
Potassium	(mg/L)	1.3		
Sodium	(mg/L)	531		
Standing Water Level	(m)	0.5		
Sulfate	(mg/L)	130		
Total Dissolved Solids (TDS)	(mg/L)	1910		
Total Organic Carbon (TOC)	(mg/L)	3.3		

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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 30/07/24	Obtained Date 18/08/24	
Alkalinity as CaCO ₃	(mg/L CaCO ₃)	117		
Calcium (Dissolved)	(mg/L)	15		
Chloride	(mg/L)	1000		
Magnesium	(mg/L)	105		
Nitrogen (Ammonia)	(mg/L)	0.01		
pH	(pH)	6.7		
Potassium	(mg/L)	2.7		
Sodium	(mg/L)	534		
Standing Water Level	(m)	2.2		
Sulfate	(mg/L)	85		
Total Dissolved Solids (TDS)	(mg/L)	2106		
Total Organic Carbon (TOC)	(mg/L)	2.4		

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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	Sample Event 2	Comment
		Sampling Date 13/05/24 Obtained Date 23/08/24	Sampling Date Obtained Date	
Alkalinity as CaCO ₃	(mg/L)	52		Sediment Pond overflow 11/05/24. EPA notified (140581).
Aluminium	(mg/L)	0.21		
Ammonia	(mg/L)	0.89		
Arsenic	(mg/L)	<0.02		
Barium	(mg/L)	0.034		
BTEX	(mg/L)	<0.0013		
Cadmium	(mg/L)	<0.005		
Calcium	(mg/L)	19.7		
Chloride	(mg/L)	81		
Chromium	(mg/L)	<0.005		
Cobalt	(mg/L)	<0.005		
Conductivity	(µS/cm)	451		
Copper	(mg/L)	0.008		
Dissolved Oxygen	(mg/L)	6.08		
Fluoride	(mg/L)	<0.05		
Lead	(mg/L)	<0.01		
Magnesium	(mg/L)	9.6		
Manganese	(mg/L)	0.022		
Mercury	(mg/L)	<0.0003		
Nitrate	(mg/L)	0.12		
Nitrite	(mg/L)	0.026		
Nitrogen (Total)	(mg/L)	2.56		
Oxidised Nitrogen	(mg/L)	0.15		
pH	pH Units	7.1		
Phosphorus (Total)	(mg/L)	0.07		
Polycyclic Aromatic Hydrocarbons	(mg/L)	<0.0001		
Potassium	(mg/L)	10.2		
Sodium	(mg/L)	47		
Sulfate	(mg/L)	14		
Sulfur	(mg/L)	7		
Total Organic Carbon	(mg/L)	35		
Total Petroleum Hydrocarbons	(mg/L)	<0.4		
Total Suspended Solids (TSS)	(mg/L)	18		
Zinc	(mg/L)	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 13/05/24 Obtained Date 23/08/24	Sample Event 2 Sampling Date	Comment
Alkalinity as CaCO ₃	(mg/L)			Sediment Pond overflow 11/05/24. EPA notified (140581). Insufficient volume for sampling analysis
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 13/05/24 Obtained Date 23/05/24	Sample Date 11/06/24 Obtained Date 24/06/24	Sample Date 30/07/24 Obtained Date 18/08/24	
Nitrogen (Ammonia)	(mg/L)	15.7	24.4	18.9	Sediment Pond overflow 11/05/24. EPA notified (140581)
pH	pH Units	7.7	7.8	7.9	
Total Suspended Solids (TSS)	(mg/L)	70	40	14	