

## Brou Landfill Facility - Annual Result Summary - Oct 2022 to Oct 2023



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: 30-Oct-22 to 29-Oct-23 (Annual)

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

Sample Frequency	Annual
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Annual Result	Additional Result	Comment
		Sample Date 27/07/23 Obtained Date 11/08/23	Sample Date Obtained Date	
Aluminium (dissolved)	(mg/L)	<0.01		
Arsenic	(mg/L)	<0.02		
Barium	(mg/L)	0.535		
Benzene	(mg/L)	<0.0003		
Cadmium	(mg/L)	<0.005		
Chromium (hexavalent)	(mg/L)	<0.0004		
Chromium (total)	(mg/L)	<0.005		
Cobalt	(mg/L)	<0.005		
Copper (dissolved)	(mg/L)	<0.005		
Ethyl benzene	(mg/L)	<0.0003		
Fluoride	(mg/L)	0.23		
Lead (dissolved)	(mg/L)	<0.01		
Manganese	(mg/L)	0.078		
Mercury	(mg/L)	<0.0003		
Nitrate	(mg/L)	0.01		
Nitrite	(mg/L)	<0.001		
Organochlorine pesticides	(mg/L)	<0.00001		
Organophosphate pesticides	(mg/L)	<0.001		
Polycyclic Aromatic Hydrocarbons	(mg/L)	<0.0001		
Toluene	(mg/L)	<0.0003		
Total Petroleum Hydrocarbons	(mg/L)	<0.05		
Total phenolics	(mg/L)	<0.2		
Xylene	(mg/L)	<0.0004		
Zinc (dissolved)	(mg/L)	0.01		

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 Licence Period: 30-Oct-21 to 29-Oct-22  
 Sample Period: 30-Oct-21 to 29-Oct-22 (Annual)



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

Sample Frequency	Annual
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Annual Result Sample Date 27/07/23 Obtained Date 11/08/23	Additional Result Sample Date Obtained Date	Comment
Aluminium (dissolved)	(mg/L)	<0.01		
Arsenic	(mg/L)	<0.02		
Barium	(mg/L)	0.035		
Benzene	(mg/L)	<0.0003		
Cadmium	(mg/L)	<0.005		
Chromium (hexavalent)	(mg/L)	<0.0004		
Chromium (total)	(mg/L)	<0.005		
Cobalt	(mg/L)	0.005		
Copper (dissolved)	(mg/L)	<0.005		
Ethyl benzene	(mg/L)	<0.0003		
Fluoride	(mg/L)	0.24		
Lead (dissolved)	(mg/L)	<0.01		
Manganese	(mg/L)	0.227		
Mercury	(mg/L)	<0.0003		
Nitrate	(mg/L)	<0.01		
Nitrite	(mg/L)	0.001		
Organochlorine pesticides	(mg/L)	<0.00001		
Organophosphate pesticides	(mg/L)	<0.001		
Polycyclic Aromatic Hydrocarbons	(mg/L)	<0.0001		
Toluene	(mg/L)	<0.0003		
Total Petroleum Hydrocarbons	(mg/L)	<0.05		
Total phenolics	(mg/L)	<0.2		
Xylene	(mg/L)	<0.0004		
Zinc (dissolved)	(mg/L)	0.02		

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

Sample Frequency	Annual
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Annual Result	Additional Result	Comment
		Sample Date 27/07/23 Obtained Date 11/08/23	Sample Date Obtained Date	
Aluminium (dissolved)	(mg/L)	<0.01		
Arsenic	(mg/L)	<0.02		
Barium	(mg/L)	0.094		
Benzene	(mg/L)	<0.0003		
Cadmium	(mg/L)	<0.005		
Chromium (hexavalent)	(mg/L)	<0.0004		
Chromium (total)	(mg/L)	<0.005		
Cobalt	(mg/L)	0.007		
Copper (dissolved)	(mg/L)	0.006		
Ethyl benzene	(mg/L)	<0.0003		
Fluoride	(mg/L)	0.23		
Lead (dissolved)	(mg/L)	<0.01		
Manganese	(mg/L)	0.42		
Mercury	(mg/L)	<0.0003		
Nitrate	(mg/L)	0.02		
Nitrite	(mg/L)	<0.001		
Organochlorine pesticides	(mg/L)	<0.00001		
Organophosphate pesticides	(mg/L)	<0.001		
Polycyclic Aromatic Hydrocarbons	(mg/L)	<0.0001		
Toluene	(mg/L)	<0.0003		
Total Petroleum Hydrocarbons	(mg/L)	<0.05		
Total phenolics	(mg/L)	<0.2		
Xylene	(mg/L)	<0.0004		
Zinc (dissolved)	(mg/L)	0.04		

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### Licence Point 7 - BR802 Leachate Annual Parameters (Leachate Pond)

Sample Frequency	Annual
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Annual Result Sampling Date 10/11/22 Obtained Date 23/11/22	Additional Result Sampling Date 06/06/23 Obtained Date 27/06/23	Additional Result Sampling Date 24/10/23 Obtained Date 08/11/23	Comment
Alkalinity as CaCO3	(mg/L CaCO <sub>3</sub> )	910	917	1158	Anions = sum of Chloride, Sulphate, Bromide and Fluoride
Aluminium (dissolved)	(mg/L)	0.17	0.09	0.1	
Ammonia	(mg/L)	140	66	43.9	
Anions	(mg/L)	523.2	965.53	1586.4	Cations = sum of Calcium, Sodium, Magnesium and Potassium
Arsenic	(mg/L)	0.02	0.02	0.03	BTEX = sum of Benzene, Toluene, Ethyl Benzene and Xylene
Barium	(mg/L)	0.068	0.068	0.065	
Bromide	(mg/L)	2	3.2	15	
BTEX	(mg/L)	<0.0013	<0.0013	<0.0013	
Cadmium	(mg/L)	<0.005	<0.005	<0.005	
Calcium (dissolved)	(mg/L)	70.6	86.4	85.1	
Cations	(mg/L)	642.6	1146.2	1585.9	
Chloride	(mg/L)	480	910	1400	
Chromium	(mg/L)	0.11	0.128	0.178	
Cobalt	(mg/L)	0.007	0.01	0.017	
Conductivity	(µS/cm)	3467	4678	6387	
Copper (dissolved)	(mg/L)	0.071	0.1	0.095	
Dissolved Oxygen	(mg/L)	<0.1	3.8	3.37	
Fluoride	(mg/L)	0.2	0.33	1.4	
Lead (dissolved)	(mg/L)	0.01	0.01	0.01	
Magnesium	(mg/L)	29	40.8	52.8	
Manganese	(mg/L)	0.235	0.121	0.241	
Mercury	(mg/L)	<0.0003	<0.0003	<0.0003	
Nitrate	(mg/L)	1.95	28.5	2.69	
Nitrite	(mg/L)	0.464	1.34	4.15	
Nitrogen (Total)	(mg/L)	162	111	82.8	
Oxidised Nitrogen	(mg/L)	2.41	29.8	6.84	
pH	pH Units	8.2	8.4	8.4	
Phosphorus (Total)	(mg/L)	1.85	1.59	2.15	
Polycyclic Aromatic Hydrocarbons	(mg/L)	0.0006	<0.0001	<0.0001	
Potassium	(mg/L)	181	300	408	
Sodium	(mg/L)	362	719	1040	
Sulphate	(mg/L)	41	52	170	
Sulfur	(mg/L)	21.3	27.5	44.9	
TKN	(mg/L)	160	81.2	76	
Total Organic Carbon	(mg/L)	149.5	205.2	338.6	
Total Petroleum Hydrocarbons	(mg/L)	<0.2	<0.2	0.1	
Total Suspended Solids (TSS)	(mg/L)	8	39	22	
Zinc (dissolved)	(mg/L)	0.25	0.33	0.6	

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### Licence Point 9 - BR812 Downstream Water Quality Annual Parameters (Brou Lake)

Sample Frequency	Annual
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Annual Result Sampling Date 03/08/23 Obtained Date 15/08/23	Additional Result Sampling Date Obtained Date	Additional Result Sampling Date Obtained Date	Comment
Alkalinity as CaCO3	(mg/L CaCO <sub>3</sub> )	96			Anions = sum of Chloride, Sulphate, Bromide and Fluoride
Aluminium (dissolved)	(mg/L)	0.01			
Ammonia	(mg/L)	0.03			Cations = sum of Calcium, Sodium, Magnesium and Potassium
Anions	(mg/L)	20764			
Arsenic	(mg/L)	<0.02			BTEX = sum of Benzene, Toluene, Ethyl Benzene and Xylene
Barium	(mg/L)	0.016			
Bromide	(mg/L)	63			
BTEX	(mg/L)	<0.0013			
Cadmium	(mg/L)	<0.005			
Calcium (dissolved)	(mg/L)	395			
Cations	(mg/L)	12099			
Chloride	(mg/L)	18000			
Chromium	(mg/L)	<0.005			
Cobalt	(mg/L)	<0.005			
Conductivity	(µS/cm)	4843			
Copper (dissolved)	(mg/L)	<0.005			
Dissolved Oxygen	(mg/L)	8.7			
Fluoride	(mg/L)	1.40			
Lead (dissolved)	(mg/L)	<0.01			
Magnesium	(mg/L)	1230			
Manganese	(mg/L)	0.007			
Mercury	(mg/L)	<0.0003			
Nitrate	(mg/L)	0.03			
Nitrite	(mg/L)	0.001			
Nitrogen (Total)	(mg/L)	0.49			
Oxidised Nitrogen	(mg/L)	0.03			
pH	pH Units	7.8			
Phosphorus (Total)	(mg/L)	0.012			
Polycyclic Aromatic Hydrocarbons	(mg/L)	<0.0001			
Potassium	(mg/L)	374			
Sodium	(mg/L)	10100			
Sulphate	(mg/L)	2700			
Sulfur	(mg/L)	914			
TKN	(mg/L)	0.46			
Total Organic Carbon	(mg/L)	5.9			
Total Petroleum Hydrocarbons	(mg/L)	<0.2			
Total Suspended Solids (TSS)	(mg/L)	15			
Zinc (dissolved)	(mg/L)	<0.01			

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### Licence Point 10 - BR813 Downstream Annual Parameters (Farm Dam)

Sample Frequency	Annual
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Annual Result Sampling Date 27/07/23 Obtained Date 11/08/23	Additional Result Sampling Date Obtained Date	Additional Result Sampling Date Obtained Date	Comment
Alkalinity as CaCO3	(mg/L CaCO <sub>3</sub> )	46			Anions = sum of Chloride, Sulphate, Bromide and Fluoride
Aluminium (dissolved)	(mg/L)	<0.01			
Ammonia	(mg/L)	0.68			Cations = sum of Calcium, Sodium, Magnesium and Potassium
Anions	(mg/L)	544			
Arsenic	(mg/L)	<0.02			BTEX = sum of Benzene, Toluene, Ethyl Benzene and Xylene
Barium	(mg/L)	0.158			
Bromide	(mg/L)	1.7			
BTEX	(mg/L)	<0.0013			
Cadmium	(mg/L)	<0.005			
Calcium (dissolved)	(mg/L)	38			
Cations	(mg/L)	331.9			
Chloride	(mg/L)	490			
Chromium	(mg/L)	<0.005			
Cobalt	(mg/L)	<0.005			
Conductivity	(µS/cm)	1908			
Copper (dissolved)	(mg/L)	<0.005			
Dissolved Oxygen	(mg/L)	7.83			
Fluoride	(mg/L)	0.08			
Lead (dissolved)	(mg/L)	<0.01			
Magnesium	(mg/L)	62.9			
Manganese	(mg/L)	0.222			
Mercury	(mg/L)	<0.0003			
Nitrate	(mg/L)	0.05			
Nitrite	(mg/L)	0.01			
Nitrogen (Total)	(mg/L)	1.81			
Oxidised Nitrogen	(mg/L)	0.06			
pH	pH Units	6.9			
Phosphorus (Total)	(mg/L)	0.045			
Polycyclic Aromatic Hydrocarbons	(mg/L)	<0.0001			
Potassium	(mg/L)	17.50			
Sodium	(mg/L)	214			
Sulphate	(mg/L)	52			
Sulfur	(mg/L)	17.6			
TKN	(mg/L)	1.75			
Total Organic Carbon	(mg/L)	19.6			
Total Petroleum Hydrocarbons	(mg/L)	<0.2			
Total Suspended Solids (TSS)	(mg/L)	20			
Zinc (dissolved)	(mg/L)	0.01			