

## Brou Landfill Facility - 2nd Quarter Result Summary - Feb 2022 to Apr 2022



Anniversary Date: 30-Oct-21  
Published Date: 25-Jul-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: 1-Feb-22 to 30-Apr-22 (2nd Quarter)

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

Sample Frequency	Quarterly
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Quarterly Result Sample Date 28/04/22 Obtained Date 18/05/22	Comment
Alkalinity as CaCO <sub>3</sub>	(mg/L CaCO <sub>3</sub> )	115	
Calcium (Dissolved)	(mg/L)	9.4	
Chloride	(mg/L)	700	
Magnesium	(mg/L)	115	
Nitrogen (Ammonia)	(mg/L)	<0.01	
pH	(pH)	6.4	
Potassium	(mg/L)	6.8	
Sodium	(mg/L)	277	
Standing Water Level	(m)	24.8	
Sulfate	(mg/L)	9.7	
Total Dissolved Solids (TDS)	(mg/L)	1475	
Total Organic Carbon (TOC)	(mg/L)	<0.2	

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

Sample Frequency	Quarterly
Sampling Method	Grab Sample

Pollutant	Unit of Measure	Quarterly Result Sample Date 28/04/22 Obtained Date 18/05/22	Comment
Alkalinity as CaCO <sub>3</sub>	(mg/L CaCO <sub>3</sub> )	134	
Calcium (Dissolved)	(mg/L)	8.48	
Chloride	(mg/L)	900	
Magnesium	(mg/L)	85.1	
Nitrogen (Ammonia)	(mg/L)	<0.01	
pH	(pH)	6.3	
Potassium	(mg/L)	1.6	
Sodium	(mg/L)	531	
Standing Water Level	(m)	0.8	
Sulfate	(mg/L)	140	
Total Dissolved Solids (TDS)	(mg/L)	1845	
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 28/04/22	Obtained Date 18/05/22	
Alkalinity as CaCO <sub>3</sub>	(mg/L CaCO <sub>3</sub> )	114		
Calcium (Dissolved)	(mg/L)	10.2		
Chloride	(mg/L)	980		
Magnesium	(mg/L)	96.1		
Nitrogen (Ammonia)	(mg/L)	<0.01		
pH	(pH)	6.4		
Potassium	(mg/L)	2.4		
Sodium	(mg/L)	545		
Standing Water Level	(m)	2.35		
Sulfate	(mg/L)	110		
Total Dissolved Solids (TDS)	(mg/L)	1985		
Total Organic Carbon (TOC)	(mg/L)	<0.2		

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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 10/03/22 Obtained Date 25/03/22	Sampling Date 07/04/22 Obtained Date 23/04/22	
Alkalinity as CaCO <sub>3</sub>	(mg/L)	102	23	02/03/22 - Overflow from sediment pond
Aluminium	(mg/L)	0.22	0.74	
Ammonia	(mg/L)	1.63	0.05	07/04/22 - Overflow from Sediment Pond
Arsenic	(mg/L)	<0.02	<0.02	11/04/22 - Leachate discharged briefly into sediment pond. Sediment pond continues to discharge into environment
Barium	(mg/L)	0.041	0.0180	
BTEX	(mg/L)	<1.3	<1.3	Dissolved oxygen field readings only
Cadmium	(mg/L)	<0.005	<0.005	
Calcium	(mg/L)	28.7	8.06	
Chloride	(mg/L)	69	23	
Chromium	(mg/L)	<0.005	<0.005	
Cobalt	(mg/L)	<0.005	<0.005	
Conductivity	(µS/cm)	487	151	
Copper	(mg/L)	0.007	0.006	
Dissolved Oxygen	(mg/L)	9.83	5.85	
Fluoride	(mg/L)	0.07	<0.05	
Lead	(mg/L)	<0.01	<0.01	
Magnesium	(mg/L)	9.79	3.78	
Manganese	(mg/L)	0.323	0.019	
Mercury	(mg/L)	<0.0003	<0.0003	
Nitrate	(mg/L)	<0.01	0.36	
Nitrite	(mg/L)	0.011	0.018	
Nitrogen (Total)	(mg/L)	5.78	2.52	
Oxidised Nitrogen	(mg/L)	0.02	0.38	
pH	pH Units	7.3	6.6	
Phosphorus (Total)	(mg/L)	0.324	0.129	
Polycyclic Aromatic Hydrocarbons	(mg/L)	<0.0001	<0.0001	
Potassium	(mg/L)	22.7	6.1	
Sodium	(mg/L)	41.4	18.4	
Sulfate	(mg/L)	18.0	5.6	
Sulfur	(mg/L)	7.34	2.62	
Total Organic Carbon	(mg/L)	59.7	60.4	
Total Petroleum Hydrocarbons	(mg/L)	<0.2	<0.2	
Total Suspended Solids (TSS)	(mg/L)	32	19	
Zinc	(mg/L)	0.01	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 10/03/22	Sample Event 2 Sampling Date 07/04/22 Obtained Date 23/04/22	Comment
Alkalinity as CaCO <sub>3</sub>	(mg/L)		<5	10/03/22 - Overflow from Sediment Pond. No flow at site BR808 (Licence Point 5), Insufficient volume for sample and analysis.
Aluminium	(mg/L)		1.34	
Ammonia	(mg/L)		0.02	07/04/22 - Overflow from Sediment Pond
Arsenic	(mg/L)		<0.02	
Barium	(mg/L)		0.028	Dissolved oxygen field readings only
BTEX	(mg/L)		<0.0013	
Cadmium	(mg/L)		<0.005	
Chloride	(mg/L)		56	
Chromium	(mg/L)		0.005	
Cobalt	(mg/L)		<0.005	
Conductivity	(µS/cm)		22.4	
Copper	(mg/L)		<0.005	
Dissolved Oxygen	(mg/L)		6.62	
Fluoride	(mg/L)		<0.05	
Lead	(mg/L)		<0.01	
Magnesium	(mg/L)		5.6	
Manganese	(mg/L)		0.068	
Mercury	(mg/L)		<0.0003	
Nitrate	(mg/L)		<0.01	
Nitrite	(mg/L)		0.01	
Nitrogen (Total)	(mg/L)		1.28	
Oxidised Nitrogen	(mg/L)		0.01	
pH	pH Units		4.8	
Phosphorus (Total)	(mg/L)		0.045	
Polycyclic Aromatic Hydrocarbons	(mg/L)		<0.0001	
Potassium	(mg/L)		2.6	
Sodium	(mg/L)		35.4	
Sulfate	(mg/L)		3.6	
Sulfur	(mg/L)		1.79	
Total Organic Carbon	(mg/L)		59.4	
Total Petroleum Hydrocarbons	(mg/L)		<0.2	
Total Suspended Solids (TSS)	(mg/L)		25	
Zinc	(mg/L)		<0.01	

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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 10/03/22 Obtained Date 28/04/22	Sample Date 28/04/22 Obtained Date 18/05/22	Sample Date Obtained Date	
Nitrogen (Ammonia)	(mg/L)	7.15	12.4		
pH	pH Units	7.5	7.5		
Total Suspended Solids (TSS)	(mg/L)	110	55		