Licensee: Eurobodalla Shire Council

EPL No.: 5881

Premises: Brou Landfill Facility

Address: Brou Lake Road, Dalmeny NSW 2546

 $\textbf{EPL Link:} \ \underline{\text{https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=252335\&SYSUID=1\&LICID=5881}\\$

POEO Public Register: https://apps.epa.nsw.gov.au/prpoeoapp/

Licence Period: 30-Oct-21 to 29-Oct-22

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

Licence Point 1 - BR809 Groundwater Annual Parameters (Up-Gradient Groundwater)

Sample Frequency	Annual		
Sampling Method	Grab Sample		

		Annual Result	
Pollutant	Unit of Measure	Sample Date 28/04/22	Comment
		Obtained Date 18/05/22	
Aluminium	(mg/L)	<0.01	
Arsenic	(mg/L)	<0.02	
Barium	(mg/L)	0.481	
Benzene	(mg/L)	<0.0003	
Cadmium	(mg/L)	<0.005	
Chromium (hexavalent)	(mg/L)	<0.005	
Chromium (total)	(mg/L)	<0.005	
Cobalt	(mg/L)	<0.005	
Copper	(mg/L)	<0.005	
Ethyl benzene	(mg/L)	<0.0003	
Fluoride	(mg/L)	0.27	
Lead	(mg/L)	<0.01	
Manganese	(mg/L)	0.068	
Mercury	(mg/L)	<0.0003	
Nitrate	(mg/L)	<0.01	
Nitrite	(mg/L)	0.002	
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)	0.4	
Xylene	(mg/L)	<0.0004	
Zinc	(mg/L)	0.03	



30-Oct-21 **Anniversary Date:**

Published Date: 27-Jun-23

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POEO Public Register: https://apps.epa.nsw.gov.au/prpoeoapp/

Licence Period: 30-Oct-21 to 29-Oct-22

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

Licence Point 2 - BR810 Groundwater Annual Parameters (Down-Gradient Groundwater)

Sample Frequency	Annual	
Sampling Method	Grab Sample	

		Annual Result	
Pollutant	Unit of Measure	Sample Date 28/04/22	Comment
		Obtained Date 18/05/22	
Aluminium	(mg/L)	<0.01	
Arsenic	(mg/L)	<0.02	
Barium	(mg/L)	0.037	
Benzene	(mg/L)	<0.0003	1
Cadmium	(mg/L)	<0.005	
Chromium (hexavalent)	(mg/L)	<0.005	
Chromium (total)	(mg/L)	<0.005	
Cobalt	(mg/L)	0.005	
Copper	(mg/L)	<0.005	
Ethyl benzene	(mg/L)	<0.0003	
Fluoride	(mg/L)	0.22	1
Lead	(mg/L)	<0.01	1
Manganese	(mg/L)	0.229	1
Mercury	(mg/L)	<0.0003	
Nitrate	(mg/L)	<0.01	
Nitrite	(mg/L)	<0.001	
Organochlorine pesticides	(mg/L)	<0.0001	1
Organophosphate pesticides	(mg/L)	<0.001	
Polycyclic Aromatic Hydrocarbons	(mg/L)	<0.0001	1
Toluene	(mg/L)	<0.0003	1
Total Petroleum Hydrocarbons	(mg/L)	<0.05	1
Total phenolics	(mg/L)	0.3	1
Xylene	(mg/L)	<0.4	1
Zinc	(mg/L)	0.01]



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POEO Public Register: https://apps.epa.nsw.gov.au/prpoeoapp/

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

Licence Point 3 - BR811 Groundwater Annual Parameters (Down-Gradient Groundwater)

Sample Frequency	Annual
Sampling Method	Grab Sample

		Annual Result	
Pollutant	Unit of Measure	Sample Date 28/04/22	Comment
		Obtained Date 18/05/22	
Aluminium	(mg/L)	0.01	
Arsenic	(mg/L)	<0.02	
Barium	(mg/L)	0.077	
Benzene	(mg/L)	<0.0003	
Cadmium	(mg/L)	<0.005	
Chromium (hexavalent)	(mg/L)	<0.005	
Chromium (total)	(mg/L)	<0.005	
Cobalt	(mg/L)	0.006	
Copper	(mg/L)	0.005	
Ethyl benzene	(mg/L)	<0.0003	
Fluoride	(mg/L)	0.23	
ead	(mg/L)	<0.01	
Manganese	(mg/L)	0.38	
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)	0.4	
Total phenolics	(mg/L)	<0.05	
Xylene	(mg/L)	<0.0004	
Zinc	(mg/L)	0.03	



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EPL Link: https://apps.epa.nsw.gov.au/prr https://apps.epa.nsw

Licence Period: 30-Oct-21 to 29-Oct-22

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

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

Sample Frequency	Annual
Sampling Method	Grab Sample

		Annual Result	Additional Result	Additional Result	
Pollutant	Unit of Measure	Sampling Date 13/12/21	Sampling Date 10/03/22	Sampling Date 01/06/22	Comment
		Obtained Date 24/12/21	Obtained Date 25/03/22	Obtained Date 14/06/22	
Alkalinity as CaCO ₃	(mg/L)	575	463	1293	
Aluminium	(mg/L)	0.1	0.16	0.18	
Ammonia	(mg/L)	40.8	43	142	
Anions	(mg/L)	530.17	342.23	701	Bromide, chloride, fluoride and sulphate
Arsenic	(mg/L)	0.02	0.02	0.03	Ì
Barium	(mg/L)	0.044	0.049	0.064	
Bromide	(mg/L)	<0.1	1.1	2.20	
втех	(mg/L)	<0.0013	<0.0013	<0.0013	
Cadmium	(mg/L)	<0.005	<0.005	<0.005	
Calcium	(mg/L)	62.8	51.2	92.30	
Cations	(mg/L)	597	430.1	976	Calcium, magnesium, potassium and sodium
Chloride	(mg/L)	480	300	680	
Chromium	(mg/L)	0.097	0.055	0.145	
Cobalt	(mg/L)	0.005	<0.005	0.007	
Conductivity	(μS/cm)	2666	2021	4502	1
Copper	(mg/L)	0.021	0.008	0.01	1
Dissolved Oxygen	(mg/L)	5.06			1
Fluoride	(mg/L)	0.17	0.13	0.23	
Lead	(mg/L)	<0.01	<0.01	<0.01	
Magnesium	(mg/L)	26.2	19.9	40.20	
Manganese	(mg/L)	0.19	0.326	0.384	
Mercury	(mg/L)	<0.0003	<0.0003	<0.0003	
Nitrate	(mg/L)	0.79	<0.01	2.32	
Nitrite	(mg/L)	0.746	0.04	0.21	
Nitrogen (Total)	(mg/L)	84.6	62.3	187	
Oxidised Nitrogen	(mg/L)	1.54	0.04	2.53	
pH	pH Units	8.4	8.1	8	
Phosphorus (Total)	(mg/L)	2.64	2.78	2.78	
Polycyclic Aromatic Hydrocarbons	(mg/L)	<0.0001	<0.0001	<0.0001	
Potassium	(mg/L)	190	159	304	
Sodium	(mg/L)	318	200	539	
Sulphate	(mg/L)	50	41	19	
Sulfur	(mg/L)	22.7	19.6	17.8]
TKN	(mg/L)	76.6	62.2	184]
Total Organic Carbon	(mg/L)	220.7	197.6	248	
Total Petroleum Hydrocarbons	(mg/L)	<0.2	0.2	0.1	
Total Suspended Solids (TSS)	(mg/L)	210	110	27	
Zinc	(mg/L)	0.15	0.05	0.08	

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POEO Public Register: https://apps.epa.nsw.gov.au/prpoeoapp/

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

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

Sample Frequency	Annual	
Sampling Method	Grab Sample	

		Annual Result	
Pollutant	Unit of Measure	Sampling Date 01/06/22	Comment
		Obtained Date 14/06/22	
Alkalinity as CaCO ₃	(mg/L)	97	
Aluminium	(mg/L)	0.01	
Ammonia	(mg/L)	<0.01	
Anions	(mg/L)	18250	Bromide, chloride, fluoride and sulphate
Arsenic	(mg/L)	<0.02	1
Barium	(mg/L)	0.011	
Bromide	(mg/L)	49	
ВТЕХ	(mg/L)	<0.0013	
Cadmium	(mg/L)	<0.005	
Cations	(mg/L)	308	Calcium, magnesium, potassium and sodium
Calcium	(mg/L)	9211	
Chloride	(mg/L)	16000	
Chromium	(mg/L)	<.005	
Cobalt	(mg/L)	<0.005	
Conductivity	(μS/cm)	43550	
Copper	(mg/L)	<0.005	
Dissolved Oxygen	(mg/L)	10.79	Field reading
Fluoride	(mg/L)	0.97	
Lead	(mg/L)	<0.01	
Magnesium	(mg/L)	971	
Manganese	(mg/L)	0	
Mercury	(mg/L)	<0.0003	
Nitrate	(mg/L)	<0.01	
Nitrite	(mg/L)	0.001	
Nitrogen (Total)	(mg/L)	0.36	
Oxidised Nitrogen	(mg/L)	<0.01	
pH	pH Units	7.9	
Phosphorus (Total)	(mg/L)	0.03	
Polycyclic Aromatic Hydrocarbons	(mg/L)	<0.0001	
Potassium	(mg/L)	282]
Sodium	(mg/L)	7650]
Sulphate	(mg/L)	2200]
Sulfur	(mg/L)	693]
TKN	(mg/L)	0.27]
Total Organic Carbon	(mg/L)	5.2	
Total Petroleum Hydrocarbons	(mg/L)	<0.2	
Total Suspended Solids (TSS)	(mg/L)	11]
Zinc	(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)

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

Sample Frequency	Annual	
Sampling Method	Grab Sample	

Pollutant	Unit of Measure	Annual Result Sampling Date 13/12/21 Obtained Date 24/12/21	Additional Result Sampling Date 07/04/22 Obtained Date 23/04/22	Additional Result Sampling Date 28/04/22 Obtained Date 18/05/22	Comment
Alkalinity as CaCO ₃	(mg/L)	63	22	127	
Aluminium	(mg/L)	0.18	0.77	0.04	
Ammonia	(mg/L)	0.09	0.39	1.54	
Anions	(mg/L)	118.54	34.4	429	Bromide, chloride, fluoride and sulphate
Arsenic	(mg/L)	<0.02	<0.02	<0.02	
Barium	(mg/L)	0.035	0.016	0.066	
Bromide	(mg/L)	0.24	<0.1	1.7	
BTEX	(mg/L)	<0.0013	<0.0013	<0.0013	
Cadmium	(mg/L)	<0.005	<0.005	<0.005	
Cations	(mg/L)	17.7	6.85	47	Calcium, magnesium, potassium and sodium
Calcium	(mg/L)	93.1	39.44	342.2	
Chloride	(mg/L)	110	29	410	
Chromium	(mg/L)	<0.005	<0.005	0.012	
Cobalt	(mg/L)	<0.005	<0.005	<0.005	1
Conductivity	(μS/cm)	497	171	1605	1
Copper	(mg/L)	0.005	<0.005	0.006	1
Dissolved Oxygen	(mg/L)	8.62	5.96	7.65	1
Fluoride	(mg/L)	<0.05	<0.05	0.08	1
Lead	(mg/L)	<0.01	<0.01	<0.01	1
Magnesium	(mg/L)	12.8	4.79	50.9	1
Manganese	(mg/L)	0.051	0.045	0.299	1
Mercury	(mg/L)	<0.0003	<0.0003	<0.0003	1
Nitrate	(mg/L)	0.02	0.43	2.5	1
Nitrite	(mg/L)	0.015	0.03	0.156	1
Nitrogen (Total)	(mg/L)	1.96	2.78	9.07	1
Oxidised Nitrogen	(mg/L)	0.03	0.46	2.66	1
рН	pH Units	7.2	6.6	7.4	1
Phosphorus (Total)	(mg/L)	0.076	0.084	0.087	1
Polycyclic Aromatic Hydrocarbons	(mg/L)	<0.0001	<0.0001	<0.0001	1
Potassium	(mg/L)	15.3	6.3	53.50	1
Sodium	(mg/L)	47.3	21.5	191	1
Sulphate	(mg/L)	8.3	5.4	17	1
Sulfur	(mg/L)	3.45	2.53	7.93	1
TKN	(mg/L)	1.95	0	6.41	1
Total Organic Carbon	(mg/L)	46.3	54.9	29.2	1
Total Petroleum Hydrocarbons	(mg/L)	<0.2	<0.2	0.3	1
Total Suspended Solids (TSS)	(mg/L)	18	41	18	1
Zinc	(mg/L)	<0.01	0.01	0.01	1



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