

Brou Landfill Facility - Annual Result Summary - 2021-2022



Anniversary Date: 30-Oct-21
Published Date: 27-Jun-23

Licensee: Eurobodalla Shire Council
EPL No.: 5881

Premises: Brou Landfill Facility

Address: Brou Lake Road, Dalmeny NSW 2546

EPL Link: <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 |

| Pollutant | Unit of Measure | Annual Result Sample Date 28/04/22 Obtained Date 18/05/22 | Comment |
|----------------------------------|-----------------|---|---------|
| 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 | |

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

| | |
|------------------|-------------|
| Sample Frequency | Annual |
| Sampling Method | Grab Sample |

| Pollutant | Unit of Measure | Annual Result Sample Date 28/04/22 Obtained Date 18/05/22 | Comment |
|----------------------------------|-----------------|---|---------|
| Aluminium | (mg/L) | <0.01 | |
| Arsenic | (mg/L) | <0.02 | |
| Barium | (mg/L) | 0.037 | |
| 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) | 0.22 | |
| Lead | (mg/L) | <0.01 | |
| Manganese | (mg/L) | 0.229 | |
| 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) | 0.3 | |
| Xylene | (mg/L) | <0.4 | |
| Zinc | (mg/L) | 0.01 | |

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Anniversary Date: 30-Oct-21

Published Date: 27-Jun-23

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

| | |
|------------------|-------------|
| Sample Frequency | Annual |
| Sampling Method | Grab Sample |

| Pollutant | Unit of Measure | Annual Result | | Comment |
|----------------------------------|-----------------|----------------------|------------------------|---------|
| | | Sample Date 28/04/22 | 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 | | |
| Lead | (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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Anniversary Date: 30-Oct-21

Published Date: 27-Jun-23

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 01/06/22 Obtained Date 14/06/22 | Comment | |
|----------------------------------|-----------------|---|--|--|
| Alkalinity as CaCO ₃ | (mg/L) | 97 | Bromide, chloride, fluoride and sulphate | |
| Aluminium | (mg/L) | 0.01 | | |
| Ammonia | (mg/L) | <0.01 | | |
| Anions | (mg/L) | 18250 | | |
| Arsenic | (mg/L) | <0.02 | | |
| Barium | (mg/L) | 0.011 | | |
| Bromide | (mg/L) | 49 | | |
| BTEX | (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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Published Date: 27-Jun-23

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 | |
| Conductivity | (µS/cm) | 497 | 171 | 1605 | |
| Copper | (mg/L) | 0.005 | <0.005 | 0.006 | |
| Dissolved Oxygen | (mg/L) | 8.62 | 5.96 | 7.65 | |
| Fluoride | (mg/L) | <0.05 | <0.05 | 0.08 | |
| Lead | (mg/L) | <0.01 | <0.01 | <0.01 | |
| Magnesium | (mg/L) | 12.8 | 4.79 | 50.9 | |
| Manganese | (mg/L) | 0.051 | 0.045 | 0.299 | |
| Mercury | (mg/L) | <0.0003 | <0.0003 | <0.0003 | |
| Nitrate | (mg/L) | 0.02 | 0.43 | 2.5 | |
| Nitrite | (mg/L) | 0.015 | 0.03 | 0.156 | |
| Nitrogen (Total) | (mg/L) | 1.96 | 2.78 | 9.07 | |
| Oxidised Nitrogen | (mg/L) | 0.03 | 0.46 | 2.66 | |
| pH | pH Units | 7.2 | 6.6 | 7.4 | |
| Phosphorus (Total) | (mg/L) | 0.076 | 0.084 | 0.087 | |
| Polycyclic Aromatic Hydrocarbons | (mg/L) | <0.0001 | <0.0001 | <0.0001 | |
| Potassium | (mg/L) | 15.3 | 6.3 | 53.50 | |
| Sodium | (mg/L) | 47.3 | 21.5 | 191 | |
| Sulphate | (mg/L) | 8.3 | 5.4 | 17 | |
| Sulfur | (mg/L) | 3.45 | 2.53 | 7.93 | |
| TKN | (mg/L) | 1.95 | 0 | 6.41 | |
| Total Organic Carbon | (mg/L) | 46.3 | 54.9 | 29.2 | |
| Total Petroleum Hydrocarbons | (mg/L) | <0.2 | <0.2 | 0.3 | |
| Total Suspended Solids (TSS) | (mg/L) | 18 | 41 | 18 | |
| Zinc | (mg/L) | <0.01 | 0.01 | 0.01 | |