

## Brou Landfill Facility - Annual Result Summary - 2020-2021



Anniversary Date: 30-Oct-20  
Published Date: 4-Nov-21

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-20 to 29-Oct-21

Sample Period: 30-Oct-20 to 29-Oct-21 (Annual)

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

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

| Pollutant                        | Unit of Measure | Annual Result<br>Sample Date 03/06/21<br>Obtained Date 24/06/21 | Comment |
|----------------------------------|-----------------|---|---------|
| Aluminium                        | (mg/L)          | 0.04  |         |
| Arsenic                          | (mg/L)          | <0.02   |         |
| Barium                           | (mg/L)          | 0.478   |         |
| Benzene                          | (mg/L)          | <0.0003   |         |
| Cadmium                          | (mg/L)          | <0.0005   |         |
| Chromium (hexavalent)            | (mg/L)          | <0.0004   |         |
| Chromium (chromium)              | (mg/L)          | <0.005  |         |
| Cobalt                           | (mg/L)          | <0.005  |         |
| Copper                           | (mg/L)          | 0.006   |         |
| Ethyl benzene                    | (mg/L)          | <0.0003   |         |
| Fluoride                         | (mg/L)          | 0.32  |         |
| Lead                             | (mg/L)          | <0.01   |         |
| Manganese                        | (mg/L)          | 0.064   |         |
| 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)          | <0.2  |         |
| Total phenolics                  | (mg/L)          | 5.7   |         |
| 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<br>Sample Date 03/06/21<br>Obtained Date 24/06/21 | Comment |
|----------------------------------|-----------------|---|---------|
| Aluminium                        | (mg/L)          | 0.25  |         |
| Arsenic                          | (mg/L)          | <0.02   |         |
| Barium                           | (mg/L)          | 0.032   |         |
| Benzene                          | (mg/L)          | <0.0003   |         |
| Cadmium                          | (mg/L)          | <0.0005   |         |
| Chromium (hexavalent)            | (mg/L)          | <0.0004   |         |
| Chromium (chromium)              | (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)          | 0.216   |         |
| 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)          | <0.2  |         |
| Total phenolics                  | (mg/L)          | 5.7   |         |
| Xylene                           | (mg/L)          | <0.0004   |         |
| Zinc                             | (mg/L)          | 0.02  |         |

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### 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 03/06/21 | Obtained Date 24/06/21 |         |
| Aluminium                        | (mg/L)          | 0.02                 |                        |         |
| Arsenic                          | (mg/L)          | <0.02                |                        |         |
| Barium                           | (mg/L)          | 0.065                |                        |         |
| Benzene                          | (mg/L)          | <0.0003              |                        |         |
| Cadmium                          | (mg/L)          | <0.0005              |                        |         |
| Chromium (hexavalent)            | (mg/L)          | <0.0004              |                        |         |
| Chromium (chromium)              | (mg/L)          | <0.005               |                        |         |
| Cobalt                           | (mg/L)          | 0.006                |                        |         |
| Copper                           | (mg/L)          | 0.005                |                        |         |
| Ethyl benzene                    | (mg/L)          | <0.0003              |                        |         |
| Fluoride                         | (mg/L)          | 0.24                 |                        |         |
| Lead                             | (mg/L)          | <0.01                |                        |         |
| Manganese                        | (mg/L)          | 0.358                |                        |         |
| 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)          | <0.2                 |                        |         |
| Total phenolics                  | (mg/L)          | 5.7                  |                        |         |
| Xylene                           | (mg/L)          | <0.0004              |                        |         |
| Zinc                             | (mg/L)          | 0.03                 |                        |         |

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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<br>Sampling Date 06/05/21<br>Obtained Date 22/05/21 | Comment                                  |
|----------------------------------|-----------------|---|--|
| Alkalinity as CaCO <sub>3</sub>  | (mg/L)          | 786   |  |
| Aluminium                        | (mg/L)          | 0.18  |  |
| Ammonia                          | (mg/L)          | 57.6  |  |
| Anions                           | (mg/L)          | 718   | Bromide, chloride, fluoride and sulphate |
| Arsenic                          | (mg/L)          | 0.03  |  |
| Barium                           | (mg/L)          | 0.072   |  |
| Bromide                          | (mg/L)          | 2.20  |  |
| BTEX                             | (mg/L)          | <0.0004   |  |
| Cadmium                          | (mg/L)          | <0.005  |  |
| Calcium                          | (mg/L)          | 87.90   | Calcium, magnesium, potassium and sodium |
| Cations                          | (mg/L)          | 816   |  |
| Calcium                          | (mg/L)          | 87.9  |  |
| Chloride                         | (mg/L)          | 670   |  |
| Chromium                         | (mg/L)          | 0.176   |  |
| Cobalt                           | (mg/L)          | 0.006   |  |
| Conductivity                     | (µS/cm)         | 3793  |  |
| Copper                           | (mg/L)          | 0.031   |  |
| Dissolved Oxygen                 | (mg/L)          | 1.13  |  |
| Fluoride                         | (mg/L)          | 0.23  |  |
| Lead                             | (mg/L)          | <0.01   |  |
| Magnesium                        | (mg/L)          | 36.60   |  |
| Manganese                        | (mg/L)          | 0.231   |  |
| Mercury                          | (mg/L)          | <0.0003   |  |
| Nitrate                          | (mg/L)          | 18.7  |  |
| Nitrite                          | (mg/L)          | 0.478   |  |
| Nitrogen (Total)                 | (mg/L)          | 115   |  |
| Oxidised Nitrogen                | (mg/L)          | 19.2  |  |
| pH                               | pH Units        | 7.9   |  |
| Phosphorus (Total)               | (mg/L)          | 1.44  |  |
| Polycyclic Aromatic Hydrocarbons | (mg/L)          | <0.0001   |  |
| Potassium                        | (mg/L)          | 232   |  |
| Sodium                           | (mg/L)          | 459   |  |
| Sulphate                         | (mg/L)          | 46  |  |
| Sulfur                           | (mg/L)          | 24.2  |  |
| TKN                              | (mg/L)          | 80  |  |
| Total Organic Carbon             | (mg/L)          | 257.7   |  |
| Total Petroleum Hydrocarbons     | (mg/L)          | <0.2  |  |
| Total Suspended Solids (TSS)     | (mg/L)          | 4   |  |
| Zinc                             | (mg/L)          | 0.28  |  |

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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<br>Sampling Date 07/10/21<br>Obtained Date 21/10/21 | Comment                                  |  |
|----------------------------------|-----------------|---|--|--|
| Alkalinity as CaCO <sub>3</sub>  | (mg/L)          | 63  | Bromide, chloride, fluoride and sulphate |  |
| Aluminium                        | (mg/L)          | <0.01   |  |  |
| Ammonia                          | (mg/L)          | 0.02  |  |  |
| Anions                           | (mg/L)          | 14842   |  |  |
| Arsenic                          | (mg/L)          | <0.02   |  |  |
| Barium                           | (mg/L)          | 0.018   |  |  |
| Boron                            | (mg/L)          | 2.81  |  |  |
| Bromide                          | (mg/L)          | 42  |  |  |
| BTEX                             | (mg/L)          | <0.0004   |  |  |
| Cadmium                          | (mg/L)          | <0.005  |  |  |
| Cations                          | (mg/L)          | 8224  |  | Calcium, magnesium, potassium and sodium |
| Calcium                          | (mg/L)          | 262   |  |  |
| Chloride                         | (mg/L)          | 13000   |  |  |
| Chromium                         | (mg/L)          | <0.005  |  |  |
| Cobalt                           | (mg/L)          | <0.005  |  |  |
| Conductivity                     | (µS/cm)         | 370.9   |  |  |
| Copper                           | (mg/L)          | <0.005  |  |  |
| Dissolved Oxygen                 | (mg/L)          | 9.39  | Field reading                            |  |
| Fluoride                         | (mg/L)          | 0.76  |  |  |
| Lead                             | (mg/L)          | <0.01   |  |  |
| Magnesium                        | (mg/L)          | 856   |  |  |
| Manganese                        | (mg/L)          | 0.012   |  |  |
| Mercury                          | (mg/L)          | <0.0003   |  |  |
| Nitrate                          | (mg/L)          | 0.01  |  |  |
| Nitrite                          | (mg/L)          | <0.001  |  |  |
| Nitrogen (Total)                 | (mg/L)          | 0.64  |  |  |
| Oxidised Nitrogen                | (mg/L)          | 0.01  |  |  |
| pH                               | pH Units        | 8.0   |  |  |
| Phosphorus (Total)               | (mg/L)          | 0.017   |  |  |
| Polycyclic Aromatic Hydrocarbons | (mg/L)          | <0.0001   |  |  |
| Potassium                        | (mg/L)          | 256   |  |  |
| Sodium                           | (mg/L)          | 6850  |  |  |
| Sulphate                         | (mg/L)          | 1800  |  |  |
| Sulfur                           | (mg/L)          | 618   |  |  |
| TKN                              | (mg/L)          | 0.57  |  |  |
| Total Organic Carbon             | (mg/L)          | 5.7   |  |  |
| Total Petroleum Hydrocarbons     | (mg/L)          | <0.2  |  |  |
| Total Suspended Solids (TSS)     | (mg/L)          | 4   |  |  |
| Zinc                             | (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<br>Sampling Date 07/09/21<br>Obtained Date 23/09/21 | Comment                                  |
|----------------------------------|-----------------|---|--|
| Alkalinity as CaCO <sub>3</sub>  | (mg/L)          | 37  | Bromide, chloride, fluoride and sulphate |
| Aluminium                        | (mg/L)          | 0.018   |  |
| Ammonia                          | (mg/L)          | 0.01  |  |
| Anions                           | (mg/L)          | 553   |  |
| Arsenic                          | (mg/L)          | <0.02   |  |
| Barium                           | (mg/L)          | 0.0764  |  |
| Bromide                          | (mg/L)          | 1.0   |  |
| BTEX                             | (mg/L)          | <0.0004   |  |
| Cadmium                          | (mg/L)          | 35.5  |  |
| Cations                          | (mg/L)          | 254   |  |
| Calcium                          | (mg/L)          | 35.5  |  |
| Chloride                         | (mg/L)          | 510   |  |
| Chromium                         | (mg/L)          | <0.005  |  |
| Cobalt                           | (mg/L)          | <0.005  |  |
| Conductivity                     | (µS/cm)         | 172.7   |  |
| Copper                           | (mg/L)          | 0.0020  |  |
| Dissolved Oxygen                 | (mg/L)          | 9.81  |  |
| Fluoride                         | (mg/L)          | <0.05   |  |
| Lead                             | (mg/L)          | 0.0001  |  |
| Magnesium                        | (mg/L)          | 58.4  |  |
| Manganese                        | (mg/L)          | 0.065   |  |
| Mercury                          | (mg/L)          | <0.0003   |  |
| Nitrate                          | (mg/L)          | 0.04  |  |
| Nitrite                          | (mg/L)          | 0.004   |  |
| Nitrogen (Total)                 | (mg/L)          | 1.02  |  |
| Oxidised Nitrogen                | (mg/L)          | 0.04  |  |
| pH                               | pH Units        | 7.4   |  |
| Phosphorus (Total)               | (mg/L)          | 0.030   |  |
| Polycyclic Aromatic Hydrocarbons | (mg/L)          | <0.0001   |  |
| Potassium                        | (mg/L)          | 8.70  |  |
| Sodium                           | (mg/L)          | 151   |  |
| Sulphate                         | (mg/L)          | 42  |  |
| Sulfur                           | (mg/L)          | 13.0  |  |
| TKN                              | (mg/L)          | 0.98  |  |
| Total Organic Carbon             | (mg/L)          | 16.6  |  |
| Total Petroleum Hydrocarbons     | (mg/L)          | <0.2  |  |
| Total Suspended Solids (TSS)     | (mg/L)          | 13  |  |
| Zinc                             | (mg/L)          | 0.002   |  |

