



| Start Of Month        | EndDate               |
|-----------------------|-----------------------|
| 01-Aug-24 12:00:00 AM | 01-Sep-24 12:00:00 AM |

# Monthly Data Summary

## AGL Macquarie - Liddell Power Station

### Environmental Protection License: EPL2122

# EPA Monitoring Point 16



| Start Of Month        | End Of Month          |
|-----------------------|-----------------------|
| 01-Aug-24 12:00:00 AM | 01-Sep-24 12:00:00 AM |

Discharge of cooling water from the cooling water outlet canal to Lake Liddell marked and shown as EPL Monitors ID. 16 on The Plans

| Pollutant              | Unit of measure | Sampling Frequency          | No. samples collected | Lowest sample value | Mean value | Highest value |
|------------------------|-----------------|-----------------------------|-----------------------|---------------------|------------|---------------|
| Ammonia                | mg/L            | Fortnightly                 | 4                     | 0.03                | 0.06       | 0.10          |
| Anionic Surfactants    | mg/L            | Fortnightly                 | 4                     | 0.05                | 0.05       | 0.05          |
| Antimony               | mg/L            | Fortnightly                 | 4                     | 0.00                | 0.00       | 0.00          |
| Arsenic                | mg/L            | Fortnightly                 | 4                     | 0.00                | 0.00       | 0.00          |
| Barium                 | mg/L            | Fortnightly                 | 4                     | 0.05                | 0.05       | 0.05          |
| Beryllium              | mg/L            | Fortnightly                 | 4                     | 0.00                | 0.00       | 0.00          |
| Boron                  | mg/L            | Fortnightly                 | 4                     | 0.44                | 0.47       | 0.49          |
| Cadmium                | mg/L            | Fortnightly                 | 4                     | 0.00                | 0.00       | 0.00          |
| Chromium III           | mg/L            | Fortnightly                 | 4                     | 0.01                | 0.01       | 0.01          |
| Chromium VI            | mg/L            | Fortnightly                 | 4                     | 0.01                | 0.01       | 0.01          |
| Cobalt                 | mg/L            | Fortnightly                 | 4                     | 0.00                | 0.00       | 0.00          |
| Copper                 | mg/L            | Fortnightly                 | 4                     | 0.00                | 0.00       | 0.00          |
| Fluoride               | mg/L            | Fortnightly                 | 4                     | 0.90                | 0.98       | 1.10          |
| Lead                   | mg/L            | Fortnightly                 | 4                     | 0.00                | 0.00       | 0.00          |
| Manganese              | mg/L            | Fortnightly                 | 4                     | 0.00                | 0.00       | 0.01          |
| Mercury                | mg/L            | Fortnightly                 | 4                     | 0.00                | 0.00       | 0.00          |
| Molybdenum             | mg/L            | Fortnightly                 | 4                     | 0.03                | 0.03       | 0.03          |
| Nickel                 | mg/L            | Fortnightly                 | 4                     | 0.00                | 0.00       | 0.00          |
| Nitrogen               | mg/L            | Fortnightly                 | 4                     | 0.60                | 0.70       | 0.80          |
| Oil and Grease         | mg/L            | Weekly during any discharge | 4                     | 1.00                | 1.00       | 1.00          |
| Phosporus              | mg/L            | Fortnightly                 | 4                     | 0.01                | 0.03       | 0.07          |
| Selenium               | mg/L            | Fortnightly                 | 4                     | 0.01                | 0.01       | 0.01          |
| Sulfur                 | mg/L            | Fortnightly                 | 4                     | 180.00              | 197.50     | 220.00        |
| Suspended Solids       | mg/L            | Fortnightly                 | 4                     | 2.50                | 4.25       | 7.00          |
| Tin                    | mg/L            | Fortnightly                 | 4                     | 0.00                | 0.00       | 0.00          |
| Total Dissolved Solids | mg/L            | Fortnightly                 | 4                     | 1340.00             | 1457.50    | 1620.00       |
| Total Organic Carbon   | mg/L            | Fortnightly                 | 4                     | 6.00                | 7.25       | 9.00          |
| Vanadium               | mg/L            | Fortnightly                 | 4                     | 0.01                | 0.01       | 0.01          |
| Zinc                   | mg/L            | Fortnightly                 | 4                     | 0.00                | 0.00       | 0.01          |
| Chlorine               | mg/L            | Fortnightly                 | 6                     | 0.01                | 0.02       | 0.03          |
| Conductivity           | uS/cm           | Fortnightly                 | 6                     | 2080.00             | 2256.67    | 2330.00       |
| pH                     | pH units        | Daily                       | 6                     | 8.10                | 8.13       | 8.20          |
| Temperature            | degC            | Fortnightly                 | 6                     | 14.30               | 15.88      | 18.20         |

# EPA Monitoring Point 17



| Start Of Month        | End Of Month          |
|-----------------------|-----------------------|
| 01-Aug-24 12:00:00 AM | 01-Sep-24 12:00:00 AM |

Discharge from oil and grit trap weir overflow to Lake Liddell marked and shown as EPL Monitors ID. 17 on The Plans

| Pollutant              | Unit of measure | Sampling Frequency          | No. samples collected | Lowest sample value | Mean value | Highest value |
|------------------------|-----------------|-----------------------------|-----------------------|---------------------|------------|---------------|
| Ammonia                | mg/L            | Fortnightly                 | 2                     | 0.01                | 0.05       | 0.09          |
| Anionic Surfactants    | mg/L            | Fortnightly                 | 2                     | 0.05                | 0.13       | 0.20          |
| Antimony               | mg/L            | Fortnightly                 | 2                     | 0.00                | 0.00       | 0.00          |
| Arsenic                | mg/L            | Fortnightly                 | 2                     | 0.00                | 0.00       | 0.00          |
| Barium                 | mg/L            | Fortnightly                 | 2                     | 0.03                | 0.03       | 0.03          |
| Beryllium              | mg/L            | Fortnightly                 | 2                     | 0.00                | 0.00       | 0.00          |
| Boron                  | mg/L            | Fortnightly                 | 2                     | 0.03                | 0.06       | 0.09          |
| Cadmium                | mg/L            | Fortnightly                 | 2                     | 0.00                | 0.00       | 0.00          |
| Chlorine               | mg/L            | Fortnightly                 | 5                     | 0.02                | 0.08       | 0.23          |
| Chromium III           | mg/L            | Fortnightly                 | 2                     | 0.01                | 0.01       | 0.01          |
| Chromium VI            | mg/L            | Fortnightly                 | 2                     | 0.01                | 0.01       | 0.01          |
| Cobalt                 | mg/L            | Fortnightly                 | 2                     | 0.00                | 0.00       | 0.00          |
| Conductivity           | uS/cm           | Fortnightly                 | 6                     | 338.00              | 381.33     | 439.00        |
| Copper                 | mg/L            | Fortnightly                 | 2                     | 0.00                | 0.00       | 0.00          |
| Fluoride               | mg/L            | Fortnightly                 | 2                     | 0.30                | 0.35       | 0.40          |
| Lead                   | mg/L            | Fortnightly                 | 2                     | 0.00                | 0.00       | 0.00          |
| Manganese              | mg/L            | Fortnightly                 | 2                     | 0.01                | 0.02       | 0.02          |
| Mercury                | mg/L            | Fortnightly                 | 2                     | 0.00                | 0.00       | 0.00          |
| Molybdenum             | mg/L            | Fortnightly                 | 2                     | 0.03                | 0.04       | 0.05          |
| Nickel                 | mg/L            | Fortnightly                 | 2                     | 0.00                | 0.00       | 0.00          |
| Nitrogen               | mg/L            | Fortnightly                 | 2                     | 0.60                | 0.90       | 1.20          |
| Oil and Grease         | mg/L            | Weekly during any discharge | 4                     | 1.00                | 1.25       | 2.00          |
| pH                     | pH units        | Daily during any discharge  | 32                    | 7.75                | 8.25       | 9.20          |
| Phosporus              | mg/L            | Fortnightly                 | 2                     | 0.04                | 0.05       | 0.06          |
| Selenium               | mg/L            | Fortnightly                 | 2                     | 0.01                | 0.01       | 0.01          |
| Sulfur                 | mg/L            | Fortnightly                 | 3                     | 10.00               | 20.00      | 40.00         |
| Suspended Solids       | mg/L            | Fortnightly                 | 4                     | 14.00               | 15.75      | 17.00         |
| Temperature            | degC            | Fortnightly                 | 6                     | 12.70               | 15.07      | 17.20         |
| Tin                    | mg/L            | Fortnightly                 | 2                     | 0.00                | 0.00       | 0.00          |
| Total Dissolved Solids | mg/L            | Fortnightly                 | 2                     | 173.00              | 203.50     | 234.00        |
| Total Organic Carbon   | mg/L            | Fortnightly                 | 2                     | 6.00                | 6.50       | 7.00          |
| Vanadium               | mg/L            | Fortnightly                 | 2                     | 0.01                | 0.01       | 0.01          |
| Zinc                   | mg/L            | Fortnightly                 | 2                     | 0.01                | 0.01       | 0.02          |

\*EPL Point 17 – pH monitoring - pH data is included for completeness, the probe is not able to accurately record pH

# EPA Monitoring Point 18



Discharge from skimmer dam overflow spillway (located at the left abutment of the skimmer dam) to Lake Liddell marked and shown as EPL Monitors ID. 18 on The Plans

| Pollutant        | Unit of measure | Sampling Frequency | No. samples collected | Lowest sample value | Mean value | Highest value |
|------------------|-----------------|--------------------|-----------------------|---------------------|------------|---------------|
| Arsenic          | mg/L            | Fortnightly        | 4                     | 0.01                | 0.01       | 0.01          |
| Boron            | mg/L            | Fortnightly        | 4                     | 1.81                | 1.91       | 2.04          |
| Cadmium          | mg/L            | Fortnightly        | 4                     | 0.00                | 0.00       | 0.00          |
| Chromium III     | mg/L            | Fortnightly        | 4                     | 0.01                | 0.01       | 0.01          |
| Chromium VI      | mg/L            | Fortnightly        | 4                     | 0.01                | 0.01       | 0.01          |
| Conductivity     | uS/cm           | Fortnightly        | 4                     | 3980.00             | 4100.00    | 4290.00       |
| Copper           | mg/L            | Fortnightly        | 4                     | 0.00                | 0.00       | 0.00          |
| Fluoride         | mg/L            | Fortnightly        | 4                     | 1.30                | 1.38       | 1.50          |
| Lead             | mg/L            | Fortnightly        | 4                     | 0.00                | 0.00       | 0.00          |
| Mercury          | mg/L            | Fortnightly        | 4                     | 0.00                | 0.00       | 0.00          |
| Oil and Grease   | mg/L            | Fortnightly        | 4                     | 1.00                | 1.50       | 3.00          |
| pH               | pH units        | Fortnightly        | 4                     | 7.50                | 7.65       | 7.70          |
| Selenium         | mg/L            | Fortnightly        | 4                     | 0.01                | 0.01       | 0.01          |
| Suspended Solids | mg/L            | Fortnightly        | 4                     | 2.50                | 3.63       | 7.00          |
| Volume           | ML/d            | Daily              | 31                    | 0.01                | 6.85       | 121.11        |
| Zinc             | mg/L            | Fortnightly        | 4                     | 0.00                | 0.00       | 0.01          |

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# EPA Monitoring Point 19



Discharge of effluent from the final pond of the onsite sewage treatment system adjacent to utilisation area marked and shown as EPL Monitors ID. 19 on The Plans

| Pollutant | Unit of measure | Sampling Frequency | No. samples collected | Lowest sample value | Mean value | Highest value |
|-----------|-----------------|--------------------|-----------------------|---------------------|------------|---------------|
| Volume    | kL/d            | Daily              |                       |                     |            |               |

| Start Of Month        | End Of Month          |
|-----------------------|-----------------------|
| 01-Aug-24 12:00:00 AM | 01-Sep-24 12:00:00 AM |

| Details of Non-Compliance with Licence Conditions | Start Time | Summary of particulars of the non-compliance (NO MORE THAN 50 WORDS) | If required, further details on particulars of non-compliance | Date(s) when the non-compliance occurred, if applicable | Cause of non-compliance | Mitigation | Action taken or that will be taken to prevent a recurrence of the non-compliance |
|---------------------------------------------------|------------|----------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------|-------------------------|------------|----------------------------------------------------------------------------------|
|---------------------------------------------------|------------|----------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------|-------------------------|------------|----------------------------------------------------------------------------------|

No incidents for the last month