

## Pollutant Monitoring Results - Leachate

Environmental Protection Licence Number:

5065

Licensee  
Name:

Lucas Heights Resource Recovery Park

Facility Address:

New Illawarra Rd Lucas  
Heights, NSW 2234

A copy of the full licence can be found on the POEO Public Register  
<http://www.epa.nsw.gov.au/prpoeoapp/>

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| Pollutant                                   | Unit of measure | Monitoring Frequency Required by Licence | 8/07/2024 | 16/10/2024 | 7/01/2025 | 28/04/2025 | 25/07/2025 | No. of samples required | No. of samples collected and analysed | Pollutant Limit | Exceedance (Y/N) | Min    | Max    | Average | Comments                                      |
|---------------------------------------------|-----------------|------------------------------------------|-----------|------------|-----------|------------|------------|-------------------------|---------------------------------------|-----------------|------------------|--------|--------|---------|-----------------------------------------------|
| Total Alkalinity as CaCO <sub>3</sub>       | mg/L            | Yearly                                   | -         | -          | 8300      | -          | -          | 1                       | 1                                     | N/A             | N                | 8300   | 8300   | 8300    | Received on 31/7/2025<br>Uploaded on 7/8/2025 |
| Aluminium                                   | mg/L            | Yearly                                   | -         | -          | 0.76      | -          | -          | 1                       | 1                                     | N/A             | N                | 0.76   | 0.76   | 0.76    |                                               |
| Arsenic                                     | mg/L            | Yearly                                   | -         | -          | 0.145     | -          | -          | 1                       | 1                                     | N/A             | N                | 0.145  | 0.145  | 0.145   |                                               |
| Barium                                      | mg/L            | Yearly                                   | -         | -          | 0.7       | -          | -          | 1                       | 1                                     | N/A             | N                | 0.7    | 0.7    | 0.7     |                                               |
| Benzene                                     | mg/L            | Yearly                                   | -         | -          | <0.001    | -          | -          | 1                       | 1                                     | N/A             | N                | 0      | 0      | #DIV/0! |                                               |
| Benzo(a)pyrene                              | mg/L            | Yearly                                   | -         | -          | <0.0005   | -          | -          | 1                       | 1                                     | N/A             | N                | 0      | 0      | #DIV/0! |                                               |
| Bicarbonate Alkalinity as CaCO <sub>3</sub> | mg/L            | Yearly                                   | -         | -          | 6700      | -          | -          | 1                       | 1                                     | N/A             | N                | 6700   | 6700   | 6700    |                                               |
| Biochemical Oxygen Demand                   | mg/L            | Yearly                                   | -         | -          | 199       | -          | -          | 1                       | 1                                     | N/A             | N                | 199    | 199    | 199     |                                               |
| Cadmium                                     | mg/L            | Yearly                                   | -         | -          | 0.0002    | -          | -          | 1                       | 1                                     | N/A             | N                | 0.0002 | 0.0002 | 0.0002  |                                               |
| Calcium                                     | mg/L            | Yearly                                   | -         | -          | 40        | -          | -          | 1                       | 1                                     | N/A             | N                | 40     | 40     | 40      |                                               |
| Chemical Oxygen Demand                      | mg/L            | Yearly                                   | -         | -          | 5000      | -          | -          | 1                       | 1                                     | N/A             | N                | 5000   | 5000   | 5000    |                                               |
| Chloride                                    | mg/L            | Yearly                                   | -         | -          | 2980      | -          | -          | 1                       | 1                                     | N/A             | N                | 2980   | 2980   | 2980    |                                               |
| Hexavalent Chromium                         | mg/L            | Yearly                                   | -         | -          | <1.00     | -          | -          | 1                       | 1                                     | N/A             | N                | 0      | 0      | #DIV/0! |                                               |
| Chromium                                    | mg/L            | Yearly                                   | -         | -          | 0.383     | -          | -          | 1                       | 1                                     | N/A             | N                | 0.383  | 0.383  | 0.383   |                                               |
| Cobalt                                      | mg/L            | Yearly                                   | -         | -          | 0.076     | -          | -          | 1                       | 1                                     | N/A             | N                | 0.076  | 0.076  | 0.076   |                                               |
| Conductivity                                | uS/cm           | Quarterly                                | 16,900    | 17400      | 20600     | 18600      | 20100      | 4                       | 4                                     | N/A             | N                | 16900  | 20600  | 18720   |                                               |
| Copper                                      | mg/L            | Yearly                                   | -         | -          | 0.008     | -          | -          | 1                       | 1                                     | N/A             | N                | 0.008  | 0.008  | 0.008   |                                               |
| Ethylbenzene                                | mg/L            | Yearly                                   | -         | -          | <0.002    | -          | -          | 1                       | 1                                     | N/A             | N                | 0      | 0      | #DIV/0! |                                               |
| Fluoride                                    | mg/L            | Yearly                                   | -         | -          | 0.7       | -          | -          | 1                       | 1                                     | N/A             | N                | 0.7    | 0.7    | 0.7     |                                               |
| Lead                                        | mg/L            | Yearly                                   | -         | -          | 0.009     | -          | -          | 1                       | 1                                     | N/A             | N                | 0.009  | 0.009  | 0.009   |                                               |
| Magnesium                                   | mg/L            | Yearly                                   | -         | -          | 34        | -          | -          | 1                       | 1                                     | N/A             | N                | 34     | 34     | 34      |                                               |
| Manganese                                   | mg/L            | Yearly                                   | -         | -          | 0.377     | -          | -          | 1                       | 1                                     | N/A             | N                | 0.377  | 0.377  | 0.377   |                                               |
| Mercury                                     | mg/L            | Yearly                                   | -         | -          | <0.0001   | -          | -          | 1                       | 1                                     | N/A             | N                | 0      | 0      | #DIV/0! |                                               |
| Nickel                                      | mg/L            | Yearly                                   | -         | -          | 0.28      | -          | -          | 1                       | 1                                     | N/A             | N                | 0.28   | 0.28   | 0.28    |                                               |
| Nitrate as N                                | mg/L            | Yearly                                   | -         | -          | 1.18      | -          | -          | 1                       | 1                                     | N/A             | N                | 1.18   | 1.18   | 1.18    |                                               |
| Nitrite as N                                | mg/L            | Yearly                                   | -         | -          | <0.10     | -          | -          | 1                       | 1                                     | N/A             | N                | 0      | 0      | #DIV/0! |                                               |
| Nitrogen (ammonia)                          | mg/L            | Yearly                                   | -         | -          | 1440      | -          | -          | 1                       | 1                                     | N/A             | N                | 1440   | 1440   | 1440    |                                               |
| Organochlorine pesticides                   | mg/L            | Yearly                                   | -         | -          | <0.0008   | -          | -          | 1                       | 1                                     | N/A             | N                | 0      | 0      | #DIV/0! |                                               |
| Organophosphate pesticides                  | mg/L            | Yearly                                   | -         | -          | <0.0024   | -          | -          | 1                       | 0                                     | N/A             | N                | 0      | 0      | #DIV/0! |                                               |
| pH                                          | pH              | Quarterly                                | 8.61      | 8.47       | 8.63      | 8.5        | 8.43       | 4                       | 4                                     | N/A             | N                | 8.43   | 8.63   | 8.528   |                                               |
| Total Phosphorus                            | mg/L            | Yearly                                   | -         | -          | 23.9      | -          | -          | 1                       | 1                                     | N/A             | N                | 23.9   | 23.9   | 23.9    |                                               |
| Polycyclic Aromatic hydrocarbons            | mg/L            | Yearly                                   | -         | -          | n/a       | -          | -          | 1                       | 1                                     | N/A             | N                | 0      | 0      | #DIV/0! |                                               |
| Potassium                                   | mg/L            | Yearly                                   | -         | -          | 1000      | -          | -          | 1                       | 1                                     | N/A             | N                | 1000   | 1000   | 1000    |                                               |
| Sodium                                      | mg/L            | Yearly                                   | -         | -          | 1940      | -          | -          | 1                       | 1                                     | N/A             | N                | 1940   | 1940   | 1940    |                                               |
| Sulfate                                     | mg/L            | Yearly                                   | -         | -          | n/a       | -          | -          | 1                       | 1                                     | N/A             | N                | 0      | 0      | #DIV/0! |                                               |
| Toluene                                     | mg/L            | Yearly                                   | -         | -          | 124       | -          | -          | 1                       | 1                                     | N/A             | N                | 124    | 124    | 124     |                                               |
| Total Dissolved Solids                      | mg/L            | Yearly                                   | -         | -          | n/a       | -          | -          | 1                       | 0                                     | N/A             | N                | 0      | 0      | #DIV/0! |                                               |
| Total Organic Carbon                        | mg/L            | Yearly                                   | -         | -          | 1380      | -          | -          | 1                       | 1                                     | N/A             | N                | 1380   | 1380   | 1380    |                                               |
| Total Petroleum Hydrocarbons                | mg/L            | Yearly                                   | -         | -          | n/a       | -          | -          | 1                       | 0                                     | N/A             | N                | 0      | 0      | #DIV/0! |                                               |
| Total Phenolics                             | mg/L            | Yearly                                   | -         | -          | n/a       | -          | -          | 1                       | 1                                     | N/A             | N                | 0      | 0      | #DIV/0! |                                               |
| Total Suspended Solids                      | mg/L            | Yearly                                   | -         | -          | 312       | -          | -          | 1                       | 1                                     | N/A             | N                | 312    | 312    | 312     |                                               |
| Xylene                                      | mg/L            | Yearly                                   | -         | -          | n/a       | -          | -          | 1                       | 1                                     | N/A             | N                | 0      | 0      | #DIV/0! |                                               |
| Zinc                                        | mg/L            | Yearly                                   | -         | -          | 0.364     | -          | -          | 1                       | 1                                     | N/A             | N                | 0.364  | 0.364  | 0.364   |                                               |
|                                             |                 |                                          |           |            |           |            |            |                         |                                       |                 |                  |        |        |         |                                               |
| Total Alkalinity as CaCO <sub>3</sub>       | mg/L            | Yearly                                   | -         | -          | 5640      | -          | -          | 1                       | 1                                     | N/A             | N                | 5640   | 5640   | 5640    |                                               |
| Aluminium                                   | mg/L            | Yearly                                   | -         | -          | 0.34      | -          | -          | 1                       | 1                                     | N/A             | N                | 0.34   | 0.34   | 0.34    |                                               |
| Arsenic                                     | mg/L            | Yearly                                   | -         | -          | 0.088     | -          | -          | 1                       | 1                                     | N/A             | N                | 0.088  | 0.088  | 0.088   |                                               |
| Barium                                      | mg/L            | Yearly                                   | -         | -          | 0.52      | -          | -          | 1                       | 1                                     | N/A             | N                | 0.52   | 0.52   | 0.52    |                                               |
| Benzene                                     | mg/L            | Yearly                                   | -         | -          | <0.001    | -          | -          | 1                       | 1                                     | N/A             | N                | 0      | 0      | #DIV/0! |                                               |
| Benzo(a)pyrene                              | mg/L            | Yearly                                   | -         | -          | <0.0005   | -          | -          | 1                       | 1                                     | N/A             | N                | 0      | 0      | #DIV/0! |                                               |

| Pollutant                                   | Unit of measure | Monitoring Frequency Required by licence | 8/07/2024 | 16/10/2024 | 7/01/2025  | 28/04/2025 | 25/07/2025 | No. of samples required | No. of samples collected and analysed | Pollutant Limit | Exceedance (Y/N) | Min   | Max   | Average | Comments |
|---------------------------------------------|-----------------|------------------------------------------|-----------|------------|------------|------------|------------|-------------------------|---------------------------------------|-----------------|------------------|-------|-------|---------|----------|
| Bicarbonate Alkalinity as CaCO <sub>3</sub> | mg/L            | Yearly                                   | -         | -          | 5480       | -          | -          | 1                       | 1                                     | N/A             | N                | 5480  | 5480  | 5480    |          |
| Biochemical Oxygen Demand                   | mg/L            | Yearly                                   | -         | -          | 203        | -          | -          | 1                       | 1                                     | N/A             | N                | 203   | 203   | 203     |          |
| Cadmium                                     | mg/L            | Yearly                                   | -         | -          | <0.0001    | -          | -          | 1                       | 1                                     | N/A             | N                | 0     | 0     | #DIV/0! |          |
| Calcium                                     | mg/L            | Yearly                                   | -         | -          | 86         | -          | -          | 1                       | 1                                     | N/A             | N                | 86    | 86    | 86      |          |
| Chemical Oxygen Demand                      | mg/L            | Yearly                                   | -         | -          | 3070       | -          | -          | 1                       | 1                                     | N/A             | N                | 3070  | 3070  | 3070    |          |
| Chloride                                    | mg/L            | Yearly                                   | -         | -          | 2330       | -          | -          | 1                       | 1                                     | N/A             | N                | 2330  | 2330  | 2330    |          |
| Hexavalent Chromium                         | mg/L            | Yearly                                   | -         | -          | <1.00      | -          | -          | 1                       | 1                                     | N/A             | N                | 0     | 0     | #DIV/0! |          |
| Chromium                                    | mg/L            | Yearly                                   | -         | -          | 0.254      | -          | -          | 1                       | 1                                     | N/A             | N                | 0.254 | 0.254 | 0.254   |          |
| Cobalt                                      | mg/L            | Yearly                                   | -         | -          | 0.054      | -          | -          | 1                       | 1                                     | N/A             | N                | 0.054 | 0.054 | 0.054   |          |
| Conductivity                                | uS/cm           | Quarterly                                | 10300     | 13500      | 16100      | 12600      | 12500      | 4                       | 4                                     | N/A             | N                | 10300 | 16100 | 13000   |          |
| Copper                                      | mg/L            | Yearly                                   | -         | -          | 0.004      | -          | -          | 1                       | 1                                     | N/A             | N                | 0.004 | 0.004 | 0.004   |          |
| Ethylbenzene                                | mg/L            | Yearly                                   | -         | -          | <0.002     | -          | -          | 1                       | 1                                     | N/A             | N                | 0     | 0     | #DIV/0! |          |
| Fluoride                                    | mg/L            | Yearly                                   | -         | -          | 0.6        | -          | -          | 1                       | 1                                     | N/A             | N                | 0.6   | 0.6   | 0.6     |          |
| Lead                                        | mg/L            | Yearly                                   | -         | -          | 0.004      | -          | -          | 1                       | 1                                     | N/A             | N                | 0.004 | 0.004 | 0.004   |          |
| Magnesium                                   | mg/L            | Yearly                                   | -         | -          | 58         | -          | -          | 1                       | 1                                     | N/A             | N                | 58    | 58    | 58      |          |
| Manganese                                   | mg/L            | Yearly                                   | -         | -          | 0.256      | -          | -          | 1                       | 1                                     | N/A             | N                | 0.256 | 0.256 | 0.256   |          |
| Mercury                                     | mg/L            | Yearly                                   | -         | -          | <0.0001    | -          | -          | 1                       | 1                                     | N/A             | N                | 0     | 0     | #DIV/0! |          |
| Nickel                                      | mg/L            | Yearly                                   | -         | -          | 0.197      | -          | -          | 1                       | 1                                     | N/A             | N                | 0.197 | 0.197 | 0.197   |          |
| Nitrate as N                                | mg/L            | Yearly                                   | -         | -          | <0.10      | -          | -          | 1                       | 0                                     | N/A             | N                | 0     | 0     | #DIV/0! |          |
| Nitrite as N                                | mg/L            | Yearly                                   | -         | -          | <0.10      | -          | -          | 1                       | 0                                     | N/A             | N                | 0     | 0     | #DIV/0! |          |
| Nitrogen (ammonia)                          | mg/L            | Yearly                                   | -         | -          | 1210       | -          | -          | 1                       | 1                                     | N/A             | N                | 1210  | 1210  | 1210    |          |
| Organochlorine pesticides                   | mg/L            | Yearly                                   | -         | -          | <0.0008    | -          | -          | 1                       | 1                                     | N/A             | N                | 0     | 0     | #DIV/0! |          |
| Organophosphate pesticides                  | mg/L            | Yearly                                   | -         | -          | <0.0024    | -          | -          | 1                       | 1                                     | N/A             | N                | 0     | 0     | #DIV/0! |          |
| pH                                          | pH              | Quarterly                                | 8.35      | 8.4        | 8.39       | 8.37       | 8.46       | 4                       | 4                                     | N/A             | N                | 8.35  | 8.46  | 8.394   |          |
| Total Phosphorus                            | mg/L            | Yearly                                   | -         | -          | 13.4       | -          | -          | 1                       | 1                                     | N/A             | N                | 13.4  | 13.4  | 13.4    |          |
| Polycyclic Aromatic hydrocarbons            | mg/L            | Yearly                                   | -         | -          | n/a        | -          | -          | 1                       | 1                                     | N/A             | N                | 0     | 0     | #DIV/0! |          |
| Potassium                                   | mg/L            | Yearly                                   | -         | -          | 980        | -          | -          | 1                       | 1                                     | N/A             | N                | 980   | 980   | 980     |          |
| Sodium                                      | mg/L            | Yearly                                   | -         | -          | 1940       | -          | -          | 1                       | 1                                     | N/A             | N                | 1940  | 1940  | 1940    |          |
| Sulfate                                     | mg/L            | Yearly                                   | -         | -          | n/a        | -          | -          | 1                       | 1                                     | N/A             | N                | 0     | 0     | #DIV/0! |          |
| Toluene                                     | mg/L            | Yearly                                   | -         | -          | 129        | -          | -          | 1                       | 1                                     | N/A             | N                | 129   | 129   | 129     |          |
| Total Dissolved Solids                      | mg/L            | Yearly                                   | -         | -          | n/a        | -          | -          | 1                       | 0                                     | N/A             | N                | 0     | 0     | #DIV/0! |          |
| Total Organic Carbon                        | mg/L            | Yearly                                   | -         | -          | 826        | -          | -          | 1                       | 1                                     | N/A             | N                | 826   | 826   | 826     |          |
| Total Petroleum Hydrocarbons                | mg/L            | Yearly                                   | -         | -          | n/a        | -          | -          | 1                       | 0                                     | N/A             | N                | 0     | 0     | #DIV/0! |          |
| Total Phenolics                             | mg/L            | Yearly                                   | -         | -          | n/a        | -          | -          | 1                       | 1                                     | N/A             | N                | 0     | 0     | #DIV/0! |          |
| Total Suspended Solids                      | mg/L            | Yearly                                   | -         | -          | 117        | -          | -          | 1                       | 1                                     | N/A             | N                | 117   | 117   | 117     |          |
| Xylene                                      | mg/L            | Yearly                                   | -         | -          | n/a        | -          | -          | 1                       | 1                                     | N/A             | N                | 0     | 0     | #DIV/0! |          |
| Zinc                                        | mg/L            | Yearly                                   | -         | -          | 0.157      | -          | -          | 1                       | 1                                     | N/A             | N                | 0.157 | 0.157 | 0.157   |          |
| Date Monitoring Data Obtained               |                 |                                          |           |            | 15/01/2025 | 9/05/2025  | 21/07/2025 |                         |                                       |                 |                  |       |       |         |          |
| Date Uploaded                               |                 |                                          |           |            | 7/02/2025  | 20/05/2025 | 1/08/2025  |                         |                                       |                 |                  |       |       |         |          |

Note:

\*\* - Monitoring date pending

n/a - analysis not done, analysis to be done during the next sampling event.