

Concentration Monitoring Summary
Jindabyne Regional Waste Management Facility 6013 Kosciuszko Road Jindabyne NSW
EPA Licence 20060

Data Last Updated on **Tuesday, 18 September 2018**

| Monitoring Location 1 | | Units | No. of samples required by licence | No. of samples collected and analysed | Date Data was Obtained | | | | Units of Measure | | |
|--|------|---------------------|------------------------------------|---------------------------------------|------------------------|------------|-----------|-----------|------------------|------|---------|
| Leachate Dam Primary GPS Coordinates -36.43736 148.62392 | | | | | 30/08/2016 | 30/11/2016 | 2/03/2017 | 1/06/2017 | Lowest | Mean | Highest |
| | | EPA Analysis | Alkalinity (as calcium carbonate) | mg/L | 1 | 4 | * | * | * | * | |
| Ammonia | mg/L | | 1 | 4 | * | * | * | * | | | |
| Calcium | mg/L | | 1 | 4 | * | * | * | * | | | |
| Chloride | mg/L | | 1 | 4 | * | * | * | * | | | |
| Fluoride | mg/L | | 1 | 4 | * | * | * | * | | | |
| Iron | mg/L | | 1 | 4 | * | * | * | * | | | |
| Magnesium | mg/L | | 1 | 4 | * | * | * | * | | | |
| Manganese | mg/L | | 1 | 4 | * | * | * | * | | | |
| Nitrate | mg/L | | 1 | 4 | * | * | * | * | | | |
| pH | pH | | 1 | 4 | * | * | * | * | | | |
| Potassium | mg/L | | 1 | 4 | * | * | * | * | | | |
| Sodium | mg/L | | 1 | 4 | * | * | * | * | | | |
| Sulfate | mg/L | | 1 | 4 | * | * | * | * | | | |
| Total organic carbon | mg/L | | 1 | 4 | * | * | * | * | | | |
| Total Phenolics | mg/L | | 1 | 4 | * | * | * | * | | | |
| Zinc | mg/L | | 1 | 4 | * | * | * | * | | | |
| Aluminium (total) | mg/L | | 1 | 4 | * | * | * | * | | | |
| Arsenic | µg/L | | 1 | 4 | * | * | * | * | | | |
| Barium | µg/L | | 1 | 4 | * | * | * | * | | | |
| Benzene | µg/L | | 1 | 4 | * | * | * | * | | | |
| Cadmium | µg/L | | 1 | 4 | * | * | * | * | | | |
| Chromium (hexavalent) | mg/L | | 1 | 4 | * | * | * | * | | | |
| Chromium (total) | mg/L | | 1 | 4 | * | * | * | * | | | |
| Cobalt | µg/L | | 1 | 4 | * | * | * | * | | | |
| Copper | µg/L | | 1 | 4 | * | * | * | * | | | |
| Ethyl benzene | µg/L | | 1 | 4 | * | * | * | * | | | |
| Lead | µg/L | | 1 | 4 | * | * | * | * | | | |
| Mercury | µg/L | | 1 | 4 | * | * | * | * | | | |
| Nitrite | mg/L | | 1 | 4 | * | * | * | * | | | |
| Nitrogen (ammonia) | mg/L | | 1 | 4 | * | * | * | * | | | |
| Organochlorine pesticides | µg/L | | 1 | 4 | * | * | * | * | | | |
| Organophosphate pesticides | µg/L | | 1 | 4 | * | * | * | * | | | |
| Polycyclic aromatic hydrocarbons | µg/L | | 1 | 4 | * | * | * | * | | | |
| Toluene | µg/L | | 1 | 4 | * | * | * | * | | | |
| Total dissolved solids (TDS) | mg/L | 1 | 4 | * | * | * | * | | | | |
| Total petroleum hydrocarbons | µg/L | 1 | 4 | * | * | * | * | | | | |
| Xylene | µg/L | 1 | 4 | * | * | * | * | | | | |

* Indicates that the monitoring location was dry

| Monitoring Location 4 | | Units | No. of samples required by licence | No. of samples collected and analysed | Date Data was Obtained | | | | Units of Measure | | |
|---|-----------------------------------|-------|------------------------------------|---------------------------------------|------------------------|------------|-----------|-----------|------------------|------|---------|
| Ground Water 1 Bore Hole 101 GPS Coordinates -36.436511 148.621315 | | | | | 30/08/2016 | 30/11/2016 | 2/03/2017 | 1/06/2017 | Lowest | Mean | Highest |
| EPA Analysis | Adsorbable organic halogens | µg/L | 4 | 4 | * | * | * | * | | | |
| | Alkalinity (as calcium carbonate) | mg/L | 4 | 4 | * | * | * | * | | | |
| | Ammonia | mg/L | 4 | 4 | * | * | * | * | | | |
| | Calcium | mg/L | 4 | 4 | * | * | * | * | | | |
| | Chloride | mg/L | 4 | 4 | * | * | * | * | | | |
| | Fluride | mg/L | 4 | 4 | * | * | * | * | | | |
| | Iron | mg/L | 4 | 4 | * | * | * | * | | | |
| | Magnesium | mg/L | 4 | 4 | * | * | * | * | | | |
| | Manganese | mg/L | 4 | 4 | * | * | * | * | | | |
| | Nitrate | mg/L | 4 | 4 | * | * | * | * | | | |
| | pH | pH | 4 | 4 | * | * | * | * | | | |
| | Potassium | mg/L | 4 | 4 | * | * | * | * | | | |
| | Sodium | mg/L | 4 | 4 | * | * | * | * | | | |
| | Standing Water Level | m | 4 | 4 | * | * | * | * | | | |
| | Sulfate | mg/L | 4 | 4 | * | * | * | * | | | |
| | Total organic carbon | mg/L | 4 | 4 | * | * | * | * | | | |
| | Total phenolics | mg/L | 4 | 4 | * | * | * | * | | | |
| | Aluminium (total) | mg/L | 1 | 4 | * | * | * | * | | | |
| | Arsenic | mg/L | 1 | 4 | * | * | * | * | | | |
| | Barium | mg/L | 1 | 4 | * | * | * | * | | | |
| | Benzene | µg/L | 1 | 4 | * | * | * | * | | | |
| | Cadmium | mg/L | 1 | 4 | * | * | * | * | | | |
| | Chromium (hexavalent) | mg/L | 1 | 4 | * | * | * | * | | | |
| | Chromium (total) | mg/L | 1 | 4 | * | * | * | * | | | |
| | Cobalt | µg/L | 1 | 4 | * | * | * | * | | | |
| | Copper | µg/L | 1 | 4 | * | * | * | * | | | |
| | Ethyl benzene | µg/L | 1 | 4 | * | * | * | * | | | |
| | Lead | µg/L | 1 | 4 | * | * | * | * | | | |
| | Mercury | µg/L | 1 | 4 | * | * | * | * | | | |
| | Nitrite | mg/L | 1 | 4 | * | * | * | * | | | |
| | Nitrogen (ammonia) | mg/L | 1 | 4 | * | * | * | * | | | |
| | Organochlorine pesticides | µg/L | 1 | 4 | * | * | * | * | | | |
| | Organophosphate pesticides | µg/L | 1 | 4 | * | * | * | * | | | |
| | Polycyclic aromatic hydrocarbons | µg/L | 1 | 4 | * | * | * | * | | | |
| Toluene | µg/L | 1 | 4 | * | * | * | * | | | | |
| Total dissolved solids (TDS) | mg/L | 1 | 4 | * | * | * | * | | | | |
| Total petroleum hydrocarbons | µg/L | 1 | 4 | * | * | * | * | | | | |
| Xylene | µg/L | 1 | 4 | * | * | * | * | | | | |

* Indicates that the monitoring location was dry

| Monitoring Location 5 | | Units | No. of samples required by licence | No. of samples collected and analysed | Date Data was Obtained | | | | Units of Measure | | |
|---|-----------------------------------|-------|------------------------------------|---------------------------------------|------------------------|------------|-----------|-----------|------------------|------|---------|
| Ground Water 2 Bore Hole 102 GPS Coordinates -36.438189 148.622499 | | | | | 30/08/2016 | 30/11/2016 | 2/03/2017 | 1/06/2017 | Lowest | Mean | Highest |
| EPA Analysis | Adsorbable organic halogens | µg/L | 4 | 4 | * | * | * | * | | | |
| | Alkalinity (as calcium carbonate) | mg/L | 4 | 4 | * | * | * | * | | | |
| | Ammonia | mg/L | 4 | 4 | * | * | * | * | | | |
| | Calcium | mg/L | 4 | 4 | * | * | * | * | | | |
| | Chloride | mg/L | 4 | 4 | * | * | * | * | | | |
| | Fluride | mg/L | 4 | 4 | * | * | * | * | | | |
| | Iron | mg/L | 4 | 4 | * | * | * | * | | | |
| | Magnesium | mg/L | 4 | 4 | * | * | * | * | | | |
| | Manganese | mg/L | 4 | 4 | * | * | * | * | | | |
| | Nitrate | mg/L | 4 | 4 | * | * | * | * | | | |
| | pH | pH | 4 | 4 | * | * | * | * | | | |
| | Potassium | mg/L | 4 | 4 | * | * | * | * | | | |
| | Sodium | mg/L | 4 | 4 | * | * | * | * | | | |
| | Standing Water Level | m | 4 | 4 | * | * | * | * | | | |
| | Sulfate | mg/L | 4 | 4 | * | * | * | * | | | |
| | Total organic carbon | mg/L | 4 | 4 | * | * | * | * | | | |
| | Total phenolics | mg/L | 4 | 4 | * | * | * | * | | | |
| | Aluminium (total) | mg/L | 1 | 4 | * | * | * | * | | | |
| | Arsenic | mg/L | 1 | 4 | * | * | * | * | | | |
| | Barium | mg/L | 1 | 4 | * | * | * | * | | | |
| | Benzene | µg/L | 1 | 4 | * | * | * | * | | | |
| | Cadmium | mg/L | 1 | 4 | * | * | * | * | | | |
| | Chromium (hexavalent) | mg/L | 1 | 4 | * | * | * | * | | | |
| | Chromium (total) | mg/L | 1 | 4 | * | * | * | * | | | |
| | Cobalt | µg/L | 1 | 4 | * | * | * | * | | | |
| | Copper | µg/L | 1 | 4 | * | * | * | * | | | |
| | Ethyl benzene | µg/L | 1 | 4 | * | * | * | * | | | |
| | Lead | µg/L | 1 | 4 | * | * | * | * | | | |
| | Mercury | µg/L | 1 | 4 | * | * | * | * | | | |
| | Nitrite | mg/L | 1 | 4 | * | * | * | * | | | |
| | Nitrogen (ammonia) | mg/L | 1 | 4 | * | * | * | * | | | |
| | Organochlorine pesticides | µg/L | 1 | 4 | * | * | * | * | | | |
| | Organophosphate pesticides | µg/L | 1 | 4 | * | * | * | * | | | |
| Polycyclic aromatic hydrocarbons | µg/L | 1 | 4 | * | * | * | * | | | | |
| Toluene | µg/L | 1 | 4 | * | * | * | * | | | | |
| Total dissolved solids (TDS) | mg/L | 1 | 4 | * | * | * | * | | | | |
| Total petroleum hydrocarbons | µg/L | 1 | 4 | * | * | * | * | | | | |
| Xylene | µg/L | 1 | 4 | * | * | * | * | | | | |

* Indicates that the monitoring location was dry

| Monitoring Location 6 | | Units | No. of samples required by licence | No. of samples collected and analysed | Date Data was Obtained | | | | Units of Measure | | | |
|---|-----------------------------------|-------|------------------------------------|---------------------------------------|------------------------|------------|-----------|-----------|------------------|-------|---------|------|
| Ground Water 3 Bore Hole 103 GPS Coordinates -36.439275 148.622198 | | | | | 30/08/2016 | 30/11/2016 | 2/03/2017 | 1/06/2017 | Lowest | Mean | Highest | |
| EPA Analysis | Adsorbable organic halogens | µg/L | 4 | 1 | <20 | | | | | | | |
| | Alkalinity (as calcium carbonate) | mg/L | 4 | 1 | 125 | | | | 125 | 125 | 125 | |
| | Ammonia | mg/L | 4 | 1 | <0.1 | | | | | | | |
| | Calcium | mg/L | 4 | 1 | 51.6 | | | | 51.6 | 51.6 | 51.6 | |
| | Chloride | mg/L | 4 | 1 | 14.5 | | | | 14.5 | 14.5 | 14.5 | |
| | Fluride | mg/L | 4 | 1 | 0.2 | | | | 0.2 | 0.2 | 0.2 | |
| | Iron | mg/L | 4 | 1 | 9.98 | | | | 9.98 | 9.98 | 9.98 | |
| | Magnesium | mg/L | 4 | 1 | 11.5 | | | | 11.5 | 11.5 | 11.5 | |
| | Manganese | mg/L | 4 | 1 | 0.303 | | | | 0.303 | 0.303 | 0.303 | |
| | Nitrate | mg/L | 4 | 1 | 12.7 | | | | 12.7 | 12.7 | 12.7 | |
| | pH | pH | | 4 | 1 | 7.65 | | | | 7.65 | 7.65 | 7.65 |
| | Potassium | mg/L | 4 | 1 | 2.4 | | | | 2.4 | 2.4 | 2.4 | |
| | Sodium | mg/L | 4 | 1 | 15.7 | | | | 15.7 | 15.7 | 15.7 | |
| | Standing Water Level | m | | 4 | 0 | | | | | | | |
| | Sulfate | mg/L | 4 | 1 | 19.1 | | | | 19.1 | 19.1 | 19.1 | |
| | Total organic carbon | mg/L | 4 | 1 | 4 | | | | 4 | 4 | 4 | |
| | Total phenolics | mg/L | 4 | 1 | <0.05 | | | | | | | |
| | Aluminium (total) | mg/L | 1 | 1 | 7.04 | | | | 7.04 | 7.04 | 7.04 | |
| | Arsenic | mg/L | 1 | 1 | <1 | | | | | | | |
| | Barium | mg/L | 1 | 1 | 64.7 | | | | 64.7 | 64.7 | 64.7 | |
| | Benzene | µg/L | 1 | 4 | <1 | <1 | <1 | <1 | | | | |
| | Cadmium | mg/L | 1 | 1 | 0.06 | | | | 0.06 | 0.06 | 0.06 | |
| | Chromium (hexavalent) | mg/L | 1 | 1 | <0.01 | | | | | | | |
| | Chromium (total) | mg/L | 1 | 1 | 0.009 | | | | 0.009 | 0.009 | 0.009 | |
| | Cobalt | µg/L | 1 | 1 | 6.8 | | | | 6.8 | 6.8 | 6.8 | |
| | Copper | µg/L | 1 | 1 | 30 | | | | 30 | 30 | 30 | |
| | Ethyl benzene | µg/L | 1 | 4 | <2 | <2 | <2 | <2 | | | | |
| | Lead | µg/L | 1 | 1 | 20.7 | | | | 20.7 | 20.7 | 20.7 | |
| | Mercury | µg/L | 1 | 4 | 0.6 | 0.1 | <0.1 | <0.1 | 0.1 | 0.35 | 0.6 | |
| | Nitrite | mg/L | 1 | 4 | 0.12 | 0.01 | 0.17 | <0.01 | 0.01 | 0.1 | 0.17 | |
| | Nitrogen (ammonia) | mg/L | 1 | 4 | 14.9 | 12.9 | 14.2 | 4.31 | 4.31 | 11.58 | 14.9 | |
| | Organochlorine pesticides (OC) | µg/L | 1 | 4 | <2.0 | <2.0 | <2.0 | <2.0 | | | | |
| | (OP) | µg/L | 1 | 4 | <2.0 | <2.0 | <2.0 | <2.0 | | | | |
| Polycyclic aromatic hydrocarbons | µg/L | 1 | 4 | <1.0 | <1.0 | <1.0 | <1.0 | | | | | |
| Toluene | µg/L | 1 | 4 | <2 | <2 | <2 | <2 | | | | | |
| Total dissolved solids (TDS) | mg/L | 1 | 1 | 290 | | | | 290 | 290 | 290 | | |
| Total petroleum hydrocarbons | µg/L | 1 | 4 | <100 | <100 | <100 | <100 | | | | | |
| Xylene | µg/L | 1 | 4 | <2 | <2 | <2 | <2 | | | | | |

* Indicates that the monitoring location was dry

| Monitoring Location 7 | | Units | No. of samples required by licence | No. of samples collected and analysed | Date Data was Obtained | | | | Units of Measure | | |
|---|-----------------------------------|-------|------------------------------------|---------------------------------------|------------------------|------------|-----------|-----------|------------------|------|---------|
| Ground Water 4 Bore Hole 5 GPS Coordinates -36.439049 148.621447 | | | | | 30/08/2016 | 30/11/2016 | 2/03/2017 | 1/06/2017 | Lowest | Mean | Highest |
| EPA Analysis | Adsorbable organic halogens | µg/L | 4 | 4 | * | * | * | * | | | |
| | Alkalinity (as calcium carbonate) | mg/L | 4 | 4 | * | * | * | * | | | |
| | Ammonia | mg/L | 4 | 4 | * | * | * | * | | | |
| | Calcium | mg/L | 4 | 4 | * | * | * | * | | | |
| | Chloride | mg/L | 4 | 4 | * | * | * | * | | | |
| | Fluride | mg/L | 4 | 4 | * | * | * | * | | | |
| | Iron | mg/L | 4 | 4 | * | * | * | * | | | |
| | Magnesium | mg/L | 4 | 4 | * | * | * | * | | | |
| | Manganese | mg/L | 4 | 4 | * | * | * | * | | | |
| | Nitrate | mg/L | 4 | 4 | * | * | * | * | | | |
| | pH | pH | 4 | 4 | * | * | * | * | | | |
| | Potassium | mg/L | 4 | 4 | * | * | * | * | | | |
| | Sodium | mg/L | 4 | 4 | * | * | * | * | | | |
| | Standing Water Level | m | 4 | 4 | * | * | * | * | | | |
| | Sulfate | mg/L | 4 | 4 | * | * | * | * | | | |
| | Total organic carbon | mg/L | 4 | 4 | * | * | * | * | | | |
| | Total phenolics | mg/L | 4 | 4 | * | * | * | * | | | |
| | Aluminium (total) | mg/L | 1 | 4 | * | * | * | * | | | |
| | Arsenic | mg/L | 1 | 4 | * | * | * | * | | | |
| | Barium | mg/L | 1 | 4 | * | * | * | * | | | |
| | Benzene | µg/L | 1 | 4 | * | * | * | * | | | |
| | Cadmium | mg/L | 1 | 4 | * | * | * | * | | | |
| | Chromium (hexavalent) | mg/L | 1 | 4 | * | * | * | * | | | |
| | Chromium (total) | mg/L | 1 | 4 | * | * | * | * | | | |
| | Cobalt | µg/L | 1 | 4 | * | * | * | * | | | |
| | Copper | µg/L | 1 | 4 | * | * | * | * | | | |
| | Ethyl benzene | µg/L | 1 | 4 | * | * | * | * | | | |
| | Lead | µg/L | 1 | 4 | * | * | * | * | | | |
| | Mercury | µg/L | 1 | 4 | * | * | * | * | | | |
| | Nitrite | mg/L | 1 | 4 | * | * | * | * | | | |
| | Nitrogen (ammonia) | mg/L | 1 | 4 | * | * | * | * | | | |
| | Organochlorine pesticides (OC) | µg/L | 1 | 4 | * | * | * | * | | | |
| | (OP) | µg/L | 1 | 4 | * | * | * | * | | | |
| Polycyclic aromatic hydrocarbons | µg/L | 1 | 4 | * | * | * | * | | | | |
| Toluene | µg/L | 1 | 4 | * | * | * | * | | | | |
| Total dissolved solids (TDS) | mg/L | 1 | 4 | * | * | * | * | | | | |
| Total petroleum hydrocarbons | µg/L | 1 | 4 | * | * | * | * | | | | |
| Xylene | µg/L | 1 | 4 | * | * | * | * | | | | |

* Indicates that the monitoring location was dry

| Monitoring Location 8 | | Units | No. of samples required by licence | No. of samples collected and analysed | Date Data was Obtained | | | | Units of Measure | | |
|--|-----------------------------------|-------|------------------------------------|---------------------------------------|------------------------|------------|-----------|-----------|------------------|------|---------|
| Leachate Dam Secondary GPS Coordinates -36.438490 148.621962 | | | | | 30/08/2016 | 30/11/2016 | 2/03/2017 | 1/06/2017 | Lowest | Mean | Highest |
| EPA Analysis | Alkalinity (as calcium carbonate) | mg/L | 1 | 4 | * | * | * | * | | | |
| | Ammonia | mg/L | 1 | 4 | * | * | * | * | | | |
| | Calcium | mg/L | 1 | 4 | * | * | * | * | | | |
| | Chloride | mg/L | 1 | 4 | * | * | * | * | | | |
| | Fluoride | mg/L | 1 | 4 | * | * | * | * | | | |
| | Iron | mg/L | 1 | 4 | * | * | * | * | | | |
| | Magnesium | mg/L | 1 | 4 | * | * | * | * | | | |
| | Manganese | mg/L | 1 | 4 | * | * | * | * | | | |
| | Nitrate | mg/L | 1 | 4 | * | * | * | * | | | |
| | pH | pH | 1 | 4 | * | * | * | * | | | |
| | Potassium | mg/L | 1 | 4 | * | * | * | * | | | |
| | Sodium | mg/L | 1 | 4 | * | * | * | * | | | |
| | Sulfate | mg/L | 1 | 4 | * | * | * | * | | | |
| | Total organic carbon | mg/L | 1 | 4 | * | * | * | * | | | |
| | Total Phenolics | mg/L | 1 | 4 | * | * | * | * | | | |
| | Zinc | mg/L | 1 | 4 | * | * | * | * | | | |
| | Aluminium (total) | mg/L | 1 | 4 | * | * | * | * | | | |
| | Arsenic | µg/L | 1 | 4 | * | * | * | * | | | |
| | Barium | µg/L | 1 | 4 | * | * | * | * | | | |
| | Benzene | µg/L | 1 | 4 | * | * | * | * | | | |
| | Cadmium | µg/L | 1 | 4 | * | * | * | * | | | |
| | Chromium (hexavalent) | mg/L | 1 | 4 | * | * | * | * | | | |
| | Chromium (total) | mg/L | 1 | 4 | * | * | * | * | | | |
| | Cobalt | µg/L | 1 | 4 | * | * | * | * | | | |
| | Copper | µg/L | 1 | 4 | * | * | * | * | | | |
| | Ethyl benzene | µg/L | 1 | 4 | * | * | * | * | | | |
| | Lead | µg/L | 1 | 4 | * | * | * | * | | | |
| | Mercury | µg/L | 1 | 4 | * | * | * | * | | | |
| | Nitrite | mg/L | 1 | 4 | * | * | * | * | | | |
| | Nitrogen (ammonia) | mg/L | 1 | 4 | * | * | * | * | | | |
| | Organochlorine pesticides | µg/L | 1 | 4 | * | * | * | * | | | |
| | Organophosphate pesticides | µg/L | 1 | 4 | * | * | * | * | | | |
| | Polycyclic aromatic hydrocarbons | µg/L | 1 | 4 | * | * | * | * | | | |
| Toluene | µg/L | 1 | 4 | * | * | * | * | | | | |
| Total dissolved solids (TDS) | mg/L | 1 | 4 | * | * | * | * | | | | |
| Total petroleum hydrocarbons | µg/L | 1 | 4 | * | * | * | * | | | | |
| Xylene | µg/L | 1 | 4 | * | * | * | * | | | | |

* Indicates that the monitoring location was dry