

Monthly Summary of EPA Monitoring Data



Disclaimer - Monitoring data contained in this document is made available as required by Section 66(6) of the Protection of the Environment Operations Act 1997 and in accordance with the written requirements issued by the NSW Environment Protection Authority. To the best of Kimbriki Environmental Enterprises' knowledge, the data in this table is correct, except where specifically noted. The information and data in this table must not be published elsewhere by any means without prior written consent from Kimbriki Environmental Enterprises. For more details on publication of pollution monitoring data please refer to the NSW EPA Website, <http://www.epa.nsw.gov.au/index.htm>

| Monitoring Period | | 01 July 2016 - 31 July 2016 | | | | | |
|------------------------------------|------------------|--|------------------------------------|------------|------------|----------------------|------------------------------|
| Date Published | | 16 August 2016 | | | | | |
| EPA Licence No. | | 13091 | | | | | |
| EPA Licence Hyperlink | | http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32504&SYSUID=1&LICID=13091 | | | | | |
| Licensee Name | | KIMBRIKI ENVIRONMENTAL ENTERPRISES PTY LIMITED | | | | | |
| Licensee Address | | Locked Bag 6, Terrey Hills, NSW 2084 | | | | | |
| Monitoring Location (EPA Point 1) | | Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 1) | | | | | |
| Explanatory Notes | | No surface water discharge occurred from this monitoring point during the month. | | | | | |
| Monitoring Location (EPA Point 2) | | Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 2) | | | | | |
| Pollutant | Units of measure | Monitoring frequency required by licence | No. of times measured during month | Min. value | Max. value | 100 percentile limit | Exceedance (yes/no) |
| Biochemical oxygen demand | mg/L (Note 1) | Special Frequency 1 (Note 2) | 3 | < 5 | < 5 | 20 | no |
| Nitrogen (ammonia) | mg/L (Note 1) | Daily during any discharge | 6 | 0.05 | 0.43 | 1 | no |
| pH | pH | Daily during any discharge | 6 | 7.1 | 8.2 | 6.5 - 8.5 | no |
| Total suspended solids | mg/L (Note 1) | Daily during any discharge | 6 | 3.7 | 42 | 50 | no |
| Explanatory Notes | | (Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge | | | | | |
| Monitoring Location (EPA Point 3) | | Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 3) | | | | | |
| Explanatory Notes | | No surface water discharge occurred from this monitoring point during the month. | | | | | |
| Monitoring Location (EPA Point 21) | | Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 21) | | | | | |
| Pollutant | Units of measure | Monitoring frequency required by licence | No. of times measured during month | Min. value | Max. value | 100 percentile limit | Exceedance (yes/no) |
| Biochemical oxygen demand | mg/L (Note 1) | Special Frequency 1 (Note 2) | 6 | < 5 | 8.7 | 20 | no |
| Nitrogen (ammonia) | mg/L (Note 1) | Daily during any discharge | 9 | 0.26 | 3.5 | 1 | yes (note 3) |
| pH | pH | Daily during any discharge | 9 | 7.2 | 8.1 | 6.5 - 8.5 | no |
| Total suspended solids | mg/L (Note 1) | Daily during any discharge | 9 | 1.9 | 220 | 50 | yes (note 3) |
| Explanatory Notes | | (Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge (Note 3) Refer to Exceedance Table for more information | | | | | |
| Monitoring Location (EPA Point 22) | | Enclosed Ground Level Flare in the North-Eastern corner of the Premises. | | | | | |
| Parameter | Units of measure | Monitoring frequency required by licence | No. of times measured during month | Min. value | Max. value | Lower Limit (Note 2) | Exceedance (yes/no) (Note 3) |
| Residence Time | seconds | Continuous | Continuous | 0.8 | 0.9 | 0.6 | No |
| Temperature | °C (Note 1) | Continuous | Continuous | 27.0 | 822.0 | 760 | No (Note 3) |
| Explanatory Notes | | (Note 1) °C (degrees Celsius) (Note 2) The parameter value must be greater than the Lower Limit specified (Note 3) Not a non-compliance as low temperature occurred on 29th July 2016 due to shutdown for 16 minutes during relocation works for gas well # 21. The 5%ile value = 796.3°C | | | | | |

Exceedance Table



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| Licensee Address | Locked Bag 6, Terrey Hills, NSW 2084 | | | | | |
| Monitoring Location (EPA Point 21) | Please refer to the map, <i>Kimbriki Monitoring Sites.pdf</i> , for location (EPA 21) | | | | | |
| Pollutant | Units of measure | Monitoring frequency required by licence | 100 percentile limit | Exceedance Date | Value | Recorded Site Rainfall (mm) (Note 2) |
| Ammonia | mg/L (Note 1) | Daily during any discharge | 1 | 8/07/2016 | 3.5 | 34 |
| Ammonia | mg/L (Note 1) | Daily during any discharge | 1 | 9/07/2016 | 2.6 | 43 |
| Total Suspended Solids | mg/L (Note 1) | Daily during any discharge | 50 | 8/07/2016 | 220 | 34 |
| Total Suspended Solids | mg/L (Note 1) | Daily during any discharge | 50 | 9/07/2016 | 190 | 43 |
| Explanatory Notes | (Note 1) mg/L (milligrams per litre) (Note 2) mm (millimetres) - up to 5 day cumulative rainfall | | | | | |
| Exceedance Information | <p><u>Ammonia</u>: The source of the above ammonia in samples collected from uncontrolled discharges on the above dates was identified to be from a seepage point where leachate entered the western drain during heavy rainfall on 8 and 9 July 2016. Immediate and ongoing action involves pumping leachate into tanker trucks from the leachate interception trench observation wells below a batter on the NW area of the site. Leachate stopped entering the western drain once this was done. The feasibility of connection of the leachate interception trench directly into the leachate reticulation network in the new landfill cell in Area 3B is being investigated.</p> <p><u>TSS</u>: The TSS exceedances occurred due to the high intensity rainfall on the above dates. Due to the large amounts of stormwater entering the site from extensive 'undisturbed' catchments that then mix with runoff from disturbed areas of the site, these exceedances will be unavoidable during high intensity events until the completion of the high level perimeter drains.</p> | | | | | |

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| Licensee Address | Locked Bag 6, Terrey Hills, NSW 2084 | | | | | | |
| Monitoring Location (EPA Point 1) | Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 1) | | | | | | |
| Explanatory Notes | No surface water discharge occurred from this monitoring point during the month. | | | | | | |
| Monitoring Location (EPA Point 2) | Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 2) | | | | | | |
| Pollutant | Units of measure | Monitoring frequency required by licence | No. of times measured during month | Min. value | Mean value | Median value | Max. value |
| Conductivity | µS/cm (Note 1) | Daily during any discharge | 6 | 223 | 523 | 532 | 745 |
| Explanatory Notes | (Note 1) µS/cm (microsiemens per centimetre) | | | | | | |
| Monitoring Location (EPA Point 3) | Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 3) | | | | | | |
| Explanatory Notes | No surface water discharge occurred from this monitoring point during the month. | | | | | | |
| Monitoring Location (EPA Point 21) | Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 21) | | | | | | |
| Pollutant | Units of measure | Monitoring frequency required by licence | No. of times measured during month | Min. value | Mean value | Median value | Max. value |
| Conductivity | µS/cm (Note 1) | Daily during any discharge | 9 | 190 | 318 | 345 | 413 |
| Explanatory Notes | (Note 1) µS/cm (microsiemens per centimetre) | | | | | | |
| Monitoring Location (EPA Point 22) | Enclosed Ground Level Flare in the North-Eastern corner of the Premises. | | | | | | |
| Pollutant | Units of measure | Monitoring frequency required by licence | No. of times measured during month | Min. value (Note 2) | Mean value | Median value | Max. value |
| Volumetric flowrate | m ³ /h (Note 1) | Continuous | Continuous | 0 | 409 | 410 | 451 |
| Explanatory Notes | (Note 1) m ³ /h (cubic metres per hour) (Note 2) Zero minimum value was due to a system shutdown on 29th July 2016 during relocation works for gas well 21 | | | | | | |