

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 The information and data in this table must not be published elsewhere by any means without prior written consent from Kimbriki Environmental Enterprises.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, www.epa.nsw.gov.au

Monitoring Period	Nov-18						
Date Published	17 December 2018						
EPA Licence No.	13091						
EPA Licence Hyperlink	http://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=71945&SYSUID=1&LICID=13091						
Licensee Name	KIMBRIKI ENVIRONMENTAL ENTERPRISES PTY LIMITED						
Licensee Address	PO BOX 196, Terrey Hills, NSW 2084						
Monitoring Location (EPA Point 1)	<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 1)</i>						
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	9.1	20	no
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	3	0.38	0.97	1	no
pH	pH	Daily during any discharge	3	7.83	8.46	6.5-8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	3	6.5	650.0	50	yes
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 2)	<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 2)</i>						
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)	1	5.9	5.9	20	no
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	1	0.25	0.25	1	no
pH	pH	Daily during any discharge	1	8.03	8.03	6.5-8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	1	96.0	96.0	50	yes
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge						

Monthly Summary of EPA Monitoring Data with Limits

Monitoring Location (EPA Point 3)		Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 3)					
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	5.1	21	20	yes
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	3	0.21	1.20	1	yes
pH	pH	Daily during any discharge	3	7.97	8.50	6.5-8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	3	3.9	33.0	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 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	8.9	20	no
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	7	0.11	1.70	1	yes
pH	pH	Daily during any discharge	7	7.09	8.65	6.5-8.5	yes
Total suspended solids	mg/L (Note 1)	Daily during any discharge	7	8.0	400.0	50	yes
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 22)		Enclosed Ground Level Flare in the North-Eastern corner of the Premises. Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 22)					
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)
Temperature	°C (Note 1)	Continuous	Continuous	792	810	760	No
Explanatory Notes	(Note 1) °C (degrees Celsius) (Note 2) The parameter value must be greater than the Lower Limit specified						

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Licensee Name	KIMBRIKI ENVIRONMENTAL ENTERPRISES PTY LIMITED					
Licensee Address	PO BOX 196, Terrey Hills, NSW 2084					
Monitoring Location (EPA Point 1)	Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 1)					
Pollutant	Units of measure	Monitoring frequency required by licence	100 percentile limit	Exceedance Date	Value	Five-day cumulative rainfall recorded on site (mm) (Note 1)
Total suspended solids	mg/L (Note 2)	Daily during any discharge	50	28/11/2018	650 (Note 3)	10
Explanatory Notes	(Note 1) mm (millimetres) (Note 2) mg/L (milligrams per litre) (Note 3) Elevated level of total suspended solids recorded on 28th November 2018 was due to a rainfall event during the process of transferring from one storage to another. Kimbriki perform daily inspection of sediment controls and proactively maintain controls by all means practicable to ensure potential for suspended solid discharge is minimised.					
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	100 percentile limit	Exceedance Date	Value	Five-day cumulative rainfall recorded on site (mm) (Note 1)
Total suspended solids	mg/L (Note 2)	Daily during any discharge	50	28/11/2018	96 (Note 3)	10
Explanatory Notes	(Note 1) mm (millimetres) (Note 2) mg/L (milligrams per litre) (Note 3) The valve to shut off the clean water diversion system and direct sediment laden water into the settling dam was closed but partially occluded by debris and a small volume of water discharged before this was detected and rectified.					
Monitoring Location (EPA Point 3)	Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 3)					
Pollutant	Units of measure	Monitoring frequency required by licence	100 percentile limit	Exceedance Date	Value	Five-day cumulative rainfall recorded on site (mm) (Note 1)
Nitrogen (ammonia)	mg/L (Note 2)	Daily during any discharge	1	7/11/2018	1.20 (Note 3)	3
Biochemical oxygen demand	mg/L (Note 2)	Daily during any discharge	20	16/11/2018	21 (Note 4)	11
Biochemical oxygen demand	mg/L (Note 2)	Daily during any discharge	20	21/11/2018	21 (Note 5)	22
Explanatory Notes	(Note 1) mm (millimetres) (Note 2) mg/L (milligrams per litre) (Note 3) KEE conduct on-site testing prior to discharging and send additional samples for testing in a laboratory. The elevated ammonia result of 1.20mg/L recorded on 7th November 2018 was unexpected as on-site testing indicated a result below 1mg/L (0.87mg/L). Numerous factors can elevate a result so it is unclear why this occurred. A representative from the contracted laboratory services has been engaged to review on site testing equipment and methodologies. On-site calibrations of water testing equipment are conducted regularly. (Note 4) It is unclear why this marginally elevated BOD level was recorded on 16th November 2018. Additional monitoring of the area is being undertaken. (Note 5) It is unclear why this marginally elevated BOD level was recorded on 21st November 2018. Additional monitoring of the area is being undertaken.					

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	100 percentile limit	Exceedance Date	Value	Five-day cumulative rainfall recorded on site (mm) (Note 1)
Nitrogen (ammonia)	mg/L (Note 2)	Daily during any discharge	1	6/11/2018	1.70 (Note 3)	3
Nitrogen (ammonia)	mg/L (Note 2)	Daily during any discharge	1	23/11/2018	1.20 (Note 4)	1
pH	pH	Daily during any discharge	6.5-8.5	28/11/2018	8.65 (Note 5)	10
Total suspended solids	mg/L (Note 2)	Daily during any discharge	50	28/11/2018	400 (Note 6)	10
Explanatory Notes	<p>(Note 1) mm (millimetres)</p> <p>(Note 2) mg/L (milligrams per litre)</p> <p>(Note 3) KEE conduct on-site testing prior to discharging and send additional samples for testing in a laboratory. The elevated ammonia result of 1.70mg/L recorded on 6th November 2018 was unexpected as on-site testing indicated a result well below 1mg/L (0.37mg/L). Numerous factors can elevate a result so it is unclear why this occurred. A representative from the contracted laboratory services has been engaged to review on site testing equipment and methodologies. On-site calibrations of water testing equipment are conducted regularly.</p> <p>(Note 4) KEE conduct on-site testing prior to discharging and send additional samples for testing in a laboratory. The elevated ammonia result of 1.20mg/L recorded on 23rd November 2018 was unexpected as on-site testing indicated a result well below 1mg/L (0.61mg/L). Numerous factors can elevate a result so it is unclear why this occurred. A representative from the contracted laboratory services has been engaged to review on site testing equipment and methodologies. On-site calibrations of water testing equipment are conducted regularly.</p> <p>(Note 5) It is unclear why the elevated pH level was recorded on 28th November 2018. Kimbriki will continue to calibrate on site testing equipment.</p> <p>(Note 6) Elevated level of total suspended solids recorded on 28th November 2018 was due to a minor rainfall event occurring during the process of preparing for an impending significant rainfall event. Kimbriki perform daily inspection of sediment controls and proactively maintain controls by all means practicable to ensure potential for suspended solid discharge is minimised.</p>					

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Licensee Name	KIMBRIKI ENVIRONMENTAL ENTERPRISES PTY LIMITED						
Licensee Address	PO BOX 196, Terrey Hills, NSW 2084						
Monitoring Location (EPA Point 1)	<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 1)</i>						
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	2 (Note 2)	351	415	415	479
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre) (Note 2) Field data missing on 13th November 2018 due to clerical error. No adverse effects for EPA Point 1 as there are no limits as per EPL 13091.						
Monitoring Location (EPA Point 2)	<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 2)</i>						
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	1	191	191	191	191
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre)						
Monitoring Location (EPA Point 3)	<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 3)</i>						
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	3	368	447	483	489
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre)						
Monitoring Location (EPA Point 21)	<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 21)</i>						
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	7	237	407	466	496
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre)						

Monitoring Location (EPA Point 22)		<i>Enclosed Ground Level Flare in the North-Eastern corner of the Premises. Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 22)</i>					
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during month	Min. value	Mean value	Median value	Max. value
Volumetric flowrate	m ³ /h (Note 1)	Continuous	Continuous	0 (Note 2)	405	417	445
Explanatory Notes	(Note 1) m ³ /h (cubic metres per hour) (Note 2) Zero value due to: 1. Flare was shutdown on 1st November 2018 for ~5.0 hours while repairs were undertaken on the gas collection system. 2. Flare was shutdown on 23rd November 2018 for ~13.5 hours due to power supply outage. Loss of data between 19:30 and 20:45 hours due to power outage. Flare was restarted remotely. 3. Flare was shutdown on 29th November 2018 for ~0.5 hours due to flame failure. Flare was restarted remotely.						

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Monitoring Period	August 2018 - November 2018						
Sample Date	7 November 2018						
Date Published	17 December 2018						
EPA Licence No.	13090						
EPA Licence Hyperlink	https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=74180&SYSUID=1&LICID=13090						
Licensee Name	KIMBRIKI ENVIRONMENTAL ENTERPRISES PTY LIMITED						
Licensee Address	PO BOX 196, Terrey Hills, NSW 2084						
Monitoring Location (EPA Point 1)	<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 1)</i>						
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Min. value	Mean value	Median value	Max. value
Methane	ppm (Note 1)	Quarterly	1	2	7	3	46
Explanatory Notes	(Note 1) ppm (parts per million)						