

Monthly Summary of EPA Monitoring Data



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Monitoring Period	01 November 2015 - 30 November 2015						
Date Published	11 December 2015						
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)	<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 1)</i>						
Explanatory Notes	No surface water discharge occurred from this monitoring point during the month.						
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)	5	4.6	35 (Note 3)	20	No
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	9	<0.01	0.33	1	no
pH	pH	Daily during any discharge	9	6.92	8.36	6.5 - 8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	9	3.9	43	50	no
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge (Note 3) As per EPL 13091 L2.1 - This maximum value is not an exceedance as the 5 day cumulative rainfall was 67.5 mm which is greater than 62.1 mm. However there was an exceedance of the BOD limit recorded during this month for this discharge point - Refer to Exceedance Table for more information.						
Monitoring Location (EPA Point 3)	<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 3)</i>						
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)	2	5.6	6	20	No
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	6	<0.01	1.7 (Note 3)	1	no
pH	pH	Daily during any discharge	6	7.05	8.02	6.5 - 8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	6	30	140 (Note 3)	50	no
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge (Note 3) As per EPL 13091 L2.1 - This maximum value is not an exceedance as the 5 day cumulative rainfall was 67.5 mm which is greater than 62.1 mm. However there was an exceedance of the TSS limit recorded during this month for this discharge point - Refer to Exceedance Table for more information.						
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) (Note 4)
Residence Time	seconds	Continuous	Continuous	1.2	1.5	0.6	No
Temperature	°C (Note 1)	Continuous	Continuous	686.9 (Note 3)	808.6	760	No
Explanatory Notes	(Note 1) °C (degrees Celsius) (Note 2) The parameter value must be greater than the Lower Limit specified (Note 3) This was the minimum value during operation for the month. This reading occurred at start-up prior to the system reaching normal operating temperature and is therefore not a non-compliance with the EPL. It represents only one (1) reading for continuous readings taken at 15 minute intervals for the whole month, excluding system shutdowns which occurred on: 1. Power supply outage on 5th November 2015 for 8.5 hours. Flare restarted remotely on 5th November 2015. 2. Power supply outage on 13th November 2015 for 16.0 hours. Minimum blower setting changed from 18Hz to 12Hz and flare restarted. 3. Power supply outage on 18th November 2015 for 1.0 hour. Flare restarted remotely on 18th November 2015. 4. Power supply outage on 20th November 2015 for 9.5 hours. Flare restarted remotely on 21st November 2015.						

Exceedance Table



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Licensee Name	KIMBRIKI ENVIRONMENTAL ENTERPRISES PTY LIMITED					
Licensee Address	Locked Bag 6, Terrey Hills, NSW 2084					
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	100 percentile limit	Exceedance Date	Value	
Biochemical Oxygen Demand (BOD)	mg/L (Note 1)	Special Frequency 1 (Note 2)	20	11/11/2015	27	
Exceedance Information	BOD exceedance most likely due to build-up of nutrients in the wetland polishing pond. The pond is scheduled for de-silting.					
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) Quarterly and on the first day of discharge					
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	100 percentile limit	Exceedance Date	Value	Recorded Site Rainfall (mm) (Note 2)
Total suspended solids	mg/L (Note 1)	Daily during any discharge	50	15/11/2015	54	56
Exceedance Information	While the 5 day cumulative rainfall at the time of this exceedance did not reach 62.1 mm (EPL 13091 L2.1) the result is attributable to the rainfall received. The site experienced 56mm of rainfall. KEE is continuing to implement a Total Suspended Solids (TSS) Reduction Plan with major new works planned for early 2016 including extensive paving of access roads and further sediment basin expansion which will further assist with reducing the likelihood of TSS exceedances.					
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) mm (millimetres)					

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Licensee Name	KIMBRIKI ENVIRONMENTAL ENTERPRISES PTY LIMITED						
Licensee Address	Locked Bag 6, Terrey Hills, NSW 2084						
Monitoring Location (EPA Point 1)	<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 1)</i>						
Explanatory Notes	No surface water discharge occurred from this monitoring point during the month.						
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	9	0.208	0.289	0.235	0.520
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>						
Explanatory Notes	No surface water discharge occurred from this monitoring point during the month.						
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	6	0.203	0.280	0.284	0.327

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)	262.9	264.0	310.0
Explanatory Notes	(Note 1) m ³ /h (cubic metres per hour) (Note 2) This minimum value occurred as a result of system shutdowns.						

Quarterly Summary of EPA Monitoring Data



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Monitoring Period	1/11/2015 (Quarterly)						
Sample Date	27/11/2015 & 2/12/15						
Date Published	11 December 2015						
EPA Licence No.	13090						
EPA Licence Hyperlink	http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=9934&SYSUID=1&LICID=13090						
Licensee Name	KIMBRIKI ENVIRONMENTAL ENTERPRISES PTY LIMITED						
Licensee Address	Locked Bag 6, 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	11	153	107.5	400
Explanatory Notes	(Note 1) ppm (parts per million)						