

Monthly Summary of EPA Monitoring Data - With Limits



*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 The information and data in this table must not be published elsewhere by any means without prior written consent from Kimbriki Environmental Enterprises.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 April 2016 - 30 April 2016						
Date Published	17 May 2016						
EPA Licence No.	13091						
EPA Licence Hyperlink	<a href="http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32504&amp;SYSUID=1&amp;LICID=13091">http://www.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32504&amp;SYSUID=1&amp;LICID=13091</a>						
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 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	< 5	20	no
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	3	0.15	0.29	1	no
pH	pH	Daily during any discharge	3	6.99	7.52	6.5 - 8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	3	28	300	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						
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)	4	< 5	< 5	20	no
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	5	0.05	0.21	1	no
pH	pH	Daily during any discharge	5	7.02	7.80	6.5 - 8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	5	10	97	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						

Monthly Summary of EPA  
Monitoring Data continued.

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)	3	< 5	< 5	20	no
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	4	0.16	0.33	1	no
pH	pH	Daily during any discharge	4	7.0	7.7	6.5 - 8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	4	15	330	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						
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 (Note 3)	Max. value	Lower Limit (Note 2)	Exceedance (yes/no)
Residence Time	seconds	Continuous	Continuous	0.8	0.8	0.6	No
Temperature	°C (Note 1)	Continuous	Continuous	719.8	818.1	760	No (Note 3)
Explanatory Notes	(Note 1) °C (degrees Celsius) (Note 2) The parameter value must <b>be greater than</b> the Lower Limit specified (Note 3) Low temperature occurred on 4th April 2016 for 1.0 hour. This was due to flare restart after power supply outage.						

**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 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	100 percentile limit	Exceedance Date	Value	Recorded Site Rainfall (mm) (Note 2)
Total suspended solids	mg/L (Note 1)	Daily during any discharge	50	4/04/2016	270	17 mm
Total suspended solids	mg/L (Note 1)	Daily during any discharge	50	5/04/2016	300	27 mm (cumulative)
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	Recorded Site Rainfall (mm) (Note 2)
Total suspended solids	mg/L (Note 1)	Daily during any discharge	50	4/04/2016	72	17 mm
Total suspended solids	mg/L (Note 1)	Daily during any discharge	50	5/04/2016	97	27 mm (cumulative)

Monthly Summary of EPA  
Monitoring Data continued.

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	4/04/2016	300	17 mm
Total suspended solids	mg/L (Note 1)	Daily during any discharge	50	5/04/2016	330	27 mm (cumulative)
Exceedance Information	<p>The exceedances from the western basins (i.e. EPA 1 and 21) were caused by works in Area 3B in preparation for lining of the new landfill cell. For a short time the basins were used to treat runoff from the excavation and had not been emptied in readiness for rainfall events.</p> <p>The exceedances from the eastern side were caused by a lack of capacity in the eastern wetland polishing pond. This has been rectified by improvement works on the eastern drain and by sending all future flows to DP03, the central sediment basin which has also been expanded to &gt; 3ML capacity.</p>					
Explanatory Notes	<p>(Note 1) mg/L (milligrams per litre) (Note 2) mm (millimetres)</p>					

Monthly Summary of EPA  
Monitoring Data continued.



Monthly Summary of EPA Monitoring Data - No Limit

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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)						
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	509	513.30	515	516
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre)						
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	5	434	637.00	709	714
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	4	457	530	536	591
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre)						

Monthly Summary of EPA  
Monitoring Data continued.

Monitoring Location (EPA Point 22)		<i>Enclosed Ground Level Flare in the North-Eastern corner of the Premises.</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 <sup>3</sup> /h (Note 1)	Continuous	Continuous	0.0 (Note 2)	457.70	458.0	476.0
Explanatory Notes	(Note 1) m <sup>3</sup> /h (cubic metres per hour) (Note 2) - Minimum value due to power supply outage on 4th April 2016 for 1.0 hour. Flare was restarted remotely.						

Monthly Summary of EPA  
Monitoring Data continued.



**Quarterly Summary of EPA Monitoring Data**

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Monitoring Period	December 2015 to March 2016 - Quarterly Surface Water Monitoring. <b>NOTE:</b> Sampling should have been carried out in March and published in April. Sampling could not be carried out in March due to low flow conditions at sampling locations. Therefore sampling was carried out in April. Ground water sampling was carried out in March and published in April.
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Licensee Name	KIMBRIKI ENVIRONMENTAL ENTERPRISES PTY LIMITED
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Licensee Address	Locked Bag 6, Terrey Hills, NSW 2084
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Monitoring Location ( <b>EPA Point 5</b> )	<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (<b>EPA 5</b>)</i>
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Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	360
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.2
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	1200
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	< 0.01
pH	pH	Quarterly	1	7.4
Potassium	mg/L (Note 2)	Quarterly	1	1.5
Redox potential	mV (Note 4)	Quarterly	1	(+) 220
Total dissolved solids	mg/L (Note 2)	Quarterly	1	190
Total organic carbon	mg/L (Note 2)	Quarterly	1	< 5

Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts)
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Monthly Summary of EPA  
Monitoring Data continued.

Monitoring Location (EPA Point 6)		Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 6)		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	270
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.2
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	1900
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.02
pH	pH	Quarterly	1	7.5
Potassium	mg/L (Note 2)	Quarterly	1	2.1
Redox potential	mV (Note 4)	Quarterly	1	(+) 210
Total dissolved solids	mg/L (Note 2)	Quarterly	1	160
Total organic carbon	mg/L (Note 2)	Quarterly	1	< 5
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts)			
Monitoring Location (EPA Point 7)		Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 7)		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	450
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	0.8
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	3500
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.75
pH	pH	Quarterly	1	8.1
Potassium	mg/L (Note 2)	Quarterly	1	5.8
Redox potential	mV (Note 4)	Quarterly	1	(+) 200
Total dissolved solids	mg/L (Note 2)	Quarterly	1	260
Total organic carbon	mg/L (Note 2)	Quarterly	1	11
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts)			



Monthly Summary of EPA  
Monitoring Data continued.

Monitoring Location (EPA Point 8)		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 8)</i>		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	420
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.3
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	710
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.18
pH	pH	Quarterly	1	9.1
Potassium	mg/L (Note 2)	Quarterly	1	5.8
Redox potential	mV (Note 4)	Quarterly	1	(+) 200
Total dissolved solids	mg/L (Note 2)	Quarterly	1	240
Total organic carbon	mg/L (Note 2)	Quarterly	1	10
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts)			
Monitoring Location (EPA Point 9)		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 9)</i>		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	470
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.2
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	1900
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.38
pH	pH	Quarterly	1	8.2
Potassium	mg/L (Note 2)	Quarterly	1	5.4
Redox potential	mV (Note 4)	Quarterly	1	(+) 210
Total dissolved solids	mg/L (Note 2)	Quarterly	1	270
Total organic carbon	mg/L (Note 2)	Quarterly	1	12
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts)			

Monthly Summary of EPA  
Monitoring Data continued.

Monitoring Location <b>(EPA Point 10)</b> <i>Holding pond - no discharge from site.</i>		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location <b>(EPA 10)</b>. Please refer to Note 5 also.</i>		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	3500
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	17000
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	110
pH	pH	Quarterly	1	8.2
Potassium	mg/L (Note 2)	Quarterly	1	150
Redox potential	mV (Note 4)	Quarterly	1	(+) 230
Total dissolved solids	mg/L (Note 2)	Quarterly	1	1900
Total organic carbon	mg/L (Note 2)	Quarterly	1	180
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts) (Note 5) This monitoring point is a holding pond with no discharge from site			
Monitoring Location <b>(EPA Point 11)</b>		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location <b>(EPA 11)</b></i>		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Biochemical oxygen demand	mg/L (Note 2)	Quarterly	1	< 5
Conductivity	µS/cm (Note 1)	Quarterly	1	480
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.1
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	16000
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.26
pH	pH	Quarterly	1	8.1
Potassium	mg/L (Note 2)	Quarterly	1	7.6
Redox potential	mV (Note 4)	Quarterly	1	(+) 190
Total dissolved solids	mg/L (Note 2)	Quarterly	1	270
Total organic carbon	mg/L (Note 2)	Quarterly	1	13
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts)			

Monthly Summary of EPA  
Monitoring Data continued.

Monitoring Location (EPA Point 12)		Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 12)		
Explanatory Notes	Earthworks were occurring at the time of sampling to expand the basin and there was no water in the basin.			
Monitoring Location (EPA Point 13)		Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 13)		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	510
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.1
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	8700
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.84
pH	pH	Quarterly	1	7.6
Potassium	mg/L (Note 2)	Quarterly	1	9.1
Redox potential	mV (Note 4)	Quarterly	1	(+) 190
Total dissolved solids	mg/L (Note 2)	Quarterly	1	290
Total organic carbon	mg/L (Note 2)	Quarterly	1	15
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts)			
Monitoring Location (EPA Point 14)		Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 14)		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Biochemical oxygen demand	mg/L (Note 2)	Quarterly	1	< 5
Conductivity	µS/cm (Note 1)	Quarterly	1	540
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.2
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	13000
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	1.1
pH	pH	Quarterly	1	7.5
Potassium	mg/L (Note 2)	Quarterly	1	10
Redox potential	mV (Note 4)	Quarterly	1	(+) 200
Total dissolved solids	mg/L (Note 2)	Quarterly	1	310
Total organic carbon	mg/L (Note 2)	Quarterly	1	17
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts)			

Monthly Summary of EPA  
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Monitoring Location (EPA Point 15)		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 15)</i>		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	550
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	14000
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	1.4
pH	pH	Quarterly	1	7.3
Potassium	mg/L (Note 2)	Quarterly	1	7.8
Redox potential	mV (Note 4)	Quarterly	1	(+) 200
Total dissolved solids	mg/L (Note 2)	Quarterly	1	310
Total organic carbon	mg/L (Note 2)	Quarterly	1	17
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre) (Note 2) mg/L (milligrams per litre) (Note 3) org/100 mL (colony forming units per 100 millilitres) (Note 4) mV (millivolts)			