

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 The information and data in this table must not be published elsewhere by any means without prior written consent from Kimbriki Environmental Enterprises.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	Sep-18						
Date Published	11 October 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)
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)
Explanatory Notes	No surface water discharge occurred from this monitoring point during the month.						
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	Max. value	100 percentile limit	Exceedance (yes/no)
Biochemical oxygen demand	mg/L (Note 1)	Special Frequency 1 (Note 2)	1	<5	<5	20	No
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	1	0.20	0.20	1	No
pH	pH	Daily during any discharge	1	8.02	8.02	6.5-8.5	No
Total suspended solids	mg/L (Note 1)	Daily during any discharge	1	9.3	9.3	50	No
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge						

Monthly Summary of EPA
Monitoring Data with Limits continued.

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)	1	<5	<5	20	No (see Note 3)
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	1	0.58	0.58	1	No (see Note 4)
pH	pH	Daily during any discharge	2	6.65	8.33	6.5-8.5	No
Total suspended solids	mg/L (Note 1)	Daily during any discharge	1	8.6	8.6	50	No (see Note 5)
Explanatory Notes	<p>(Note 1) mg/L (milligrams per litre)</p> <p>(Note 2) Special Frequency 1 - Quarterly and on the first day of discharge</p> <p>(Note 3) Incomplete data set for BOD occurred on 3rd September 2018 due to unexpected under-resourcing for water monitoring (several staff away unwell at short notice). However it is expected this result was <5 based on available historical data at this monitoring point so no exceedance has been recorded.</p> <p>(Note 4) Incomplete data set for Nitrogen (ammonia) occurred on 3rd September 2018 due to unexpected under-resourcing for water monitoring (several staff away unwell at short notice). However it is expected this result was <1 based on available historical data at this monitoring point so no exceedance has been recorded.</p> <p>(Note 5) Incomplete data set for TSS occurred on 3rd September 2018 due to unexpected under-resourcing for water monitoring (several staff away unwell at short notice). However available historical data for TSS at this monitoring point, when discharge is not due to a high rainfall event (as was the case on this day), has generally been <50. Hence it is expected this result was <50 on this day and no exceedance has been recorded.</p>						
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	790	806	760	no
Explanatory Notes	<p>(Note 1) °C (degrees Celsius)</p> <p>(Note 2) The parameter value must be greater than the Lower Limit specified</p>						

Monthly Summary of EPA Monitoring Data - No Limit



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Monitoring Period	Sep-18						
Date Published	11 October 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	Mean value	Median value	Max. value
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>						
Explanatory Notes	No surface water discharge occurred from this monitoring point during the month.						
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	1	613	613	613	613
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	1 (see Note 2)	557	557	557	557
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre) (Note 2) Incomplete data set for conductivity occurred on 3rd September 2018 due to unexpected under-resourcing for water monitoring (several staff away unwell at short notice). However there is no EPL limit on this analyte so no exceedance can be recorded.						
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	310	422	421	457
Explanatory Notes	(Note 1) m ³ /h (cubic metres per hour)						

Quarterly Summary of EPA Monitoring Data



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Monitoring Period	June 2018 - September 2018. Surface water sampled 06 September 2018. Groundwater sampled 07 September 2018.			
Date Published	11 October 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	Locked Bag 6, Terrey Hills, NSW 2084			
Monitoring Location (EPA Point 1/11)	<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 1/11)</i>			
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Explanatory Notes	No flow at this monitoring point due to dry weather.			
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 quarter	Value
Explanatory Notes	No flow at this monitoring point due to dry weather.			
Monitoring Location (EPA Point 3/12)	<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 3/12)</i>			
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Explanatory Notes	No flow at this monitoring point due to dry weather.			
Monitoring Location (EPA Point 5)	<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 5)</i>			
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Explanatory Notes	No flow at this monitoring point due to dry weather.			

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 quarter	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	220
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.1
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	65
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.19
pH	pH	Quarterly	1	8.0
Potassium	mg/L (Note 2)	Quarterly	1	4.4
Redox potential	mV (Note 4)	Quarterly	1	130
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	330
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.1
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	180
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.09
pH	pH	Quarterly	1	7.9
Potassium	mg/L (Note 2)	Quarterly	1	8.5
Redox potential	mV (Note 4)	Quarterly	1	140
Total dissolved solids	mg/L (Note 2)	Quarterly	1	240
Total organic carbon	mg/L (Note 2)	Quarterly	1	9.9
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 8)		Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 8)		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	340
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.0
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	67
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.31
pH	pH	Quarterly	1	9.5
Potassium	mg/L (Note 2)	Quarterly	1	8.8
Redox potential	mV (Note 4)	Quarterly	1	140
Total dissolved solids	mg/L (Note 2)	Quarterly	1	260
Total organic carbon	mg/L (Note 2)	Quarterly	1	11.0
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)		Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 9)		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	440
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.2
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	190
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.10
pH	pH	Quarterly	1	7.3
Potassium	mg/L (Note 2)	Quarterly	1	9.1
Redox potential	mV (Note 4)	Quarterly	1	380
Total dissolved solids	mg/L (Note 2)	Quarterly	1	240
Total organic carbon	mg/L (Note 2)	Quarterly	1	8.2
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 10)		Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 10)		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	5200
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	7.1
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	5200
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	350.00
pH	pH	Quarterly	1	8.0
Potassium	mg/L (Note 2)	Quarterly	1	220.0
Redox potential	mV (Note 4)	Quarterly	1	310
Total dissolved solids	mg/L (Note 2)	Quarterly	1	2000
Total organic carbon	mg/L (Note 2)	Quarterly	1	120.0
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 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
Explanatory Notes	No flow at this monitoring point due to dry weather.			
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
Explanatory Notes	No flow at this monitoring point due to dry weather.			

Monitoring Location (EPA Point 15)		Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 15)		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Explanatory Notes	No flow at this monitoring point due to dry weather.			
Monitoring Location (EPA Point 16)		Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 16)		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Alkalinity (as calcium carbonate)	mg/L (Note 1)	Quarterly	1	26
Calcium	mg/L (Note 1)	Quarterly	1	3.8
Chloride	mg/L (Note 1)	Quarterly	1	85
Magnesium	mg/L (Note 1)	Quarterly	1	8.7
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	0.02
pH	pH units	Quarterly	1	6.2
Potassium	mg/L (Note 1)	Quarterly	1	1.2
Sodium	mg/L (Note 1)	Quarterly	1	39
Standing Water Level	metres (Note 2)	Quarterly	1	3.20
Sulfate	mg/L (Note 1)	Quarterly	1	9.1
Total dissolved solids	mg/L (Note 1)	Quarterly	1	180
Total organic carbon	mg/L (Note 1)	Quarterly	1	5.6
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) metres from top of monitoring bore casing			
Monitoring Location (EPA Point 17)		Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 17)		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Alkalinity (as calcium carbonate)	mg/L (Note 1)	Quarterly	1	<20
Calcium	mg/L (Note 1)	Quarterly	1	3.1
Chloride	mg/L (Note 1)	Quarterly	1	87
Magnesium	mg/L (Note 1)	Quarterly	1	9.4
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	0.11
pH	pH units	Quarterly	1	5.6
Potassium	mg/L (Note 1)	Quarterly	1	1.7
Sodium	mg/L (Note 1)	Quarterly	1	47
Standing Water Level	metres (Note 2)	Quarterly	1	7.24
Sulfate	mg/L (Note 1)	Quarterly	1	32
Total dissolved solids	mg/L (Note 1)	Quarterly	1	220
Total organic carbon	mg/L (Note 1)	Quarterly	1	5.1
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) metres from top of monitoring bore casing			

Monitoring Location (EPA Point 18)		Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 18)		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Alkalinity (as calcium carbonate)	mg/L (Note 1)	Quarterly	1	460
Calcium	mg/L (Note 1)	Quarterly	1	15.0
Chloride	mg/L (Note 1)	Quarterly	1	220
Magnesium	mg/L (Note 1)	Quarterly	1	35.0
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	60.00
pH	pH units	Quarterly	1	7.0
Potassium	mg/L (Note 1)	Quarterly	1	42.0
Sodium	mg/L (Note 1)	Quarterly	1	160
Standing Water Level	metres (Note 2)	Quarterly	1	14.10
Sulfate	mg/L (Note 1)	Quarterly	1	46
Total dissolved solids	mg/L (Note 1)	Quarterly	1	740
Total organic carbon	mg/L (Note 1)	Quarterly	1	47.0
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) metres from top of monitoring bore casing			
Monitoring Location (EPA Point 19)		Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 19)		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Alkalinity (as calcium carbonate)	mg/L (Note 1)	Quarterly	1	150
Calcium	mg/L (Note 1)	Quarterly	1	25.0
Chloride	mg/L (Note 1)	Quarterly	1	190
Magnesium	mg/L (Note 1)	Quarterly	1	13.0
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	19.00
pH	pH units	Quarterly	1	6.6
Potassium	mg/L (Note 1)	Quarterly	1	39.0
Sodium	mg/L (Note 1)	Quarterly	1	95
Standing Water Level	metres (Note 2)	Quarterly	1	17.09
Sulfate	mg/L (Note 1)	Quarterly	1	11
Total dissolved solids	mg/L (Note 1)	Quarterly	1	480
Total organic carbon	mg/L (Note 1)	Quarterly	1	18.0
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) metres from top of monitoring bore casing			

Monitoring Location (EPA Point 20)		Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 20)		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Alkalinity (as calcium carbonate)	mg/L (Note 1)	Quarterly	1	34
Calcium	mg/L (Note 1)	Quarterly	1	2.5
Chloride	mg/L (Note 1)	Quarterly	1	46
Magnesium	mg/L (Note 1)	Quarterly	1	4.9
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	<0.01
pH	pH units	Quarterly	1	6.4
Potassium	mg/L (Note 1)	Quarterly	1	1.0
Sodium	mg/L (Note 1)	Quarterly	1	23
Standing Water Level	metres (Note 2)	Quarterly	1	21.71
Sulfate	mg/L (Note 1)	Quarterly	1	<5
Total dissolved solids	mg/L (Note 1)	Quarterly	1	110
Total organic carbon	mg/L (Note 1)	Quarterly	1	21.0
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) metres from top of monitoring bore casing			
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 quarter	Value
Explanatory Notes	No flow at this monitoring point due to dry weather.			