

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 The information and data in this table must not be published elsewhere by any means without prior written consent from Kimbriki Environmental Enterprises.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	Dec-19						
Date Published	10 January 2020						
EPA Licence No.	13091						
EPA Licence Hyperlink	https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=165894&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)	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	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)	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)
Explanatory Notes	No surface water discharge occurred from this monitoring point during the month						
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)
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)
Explanatory Notes	No surface water discharge occurred from this monitoring point during the month						
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)
Residence Time	seconds	Continuous	Continuous	0.7	0.8	0.6	no
Temperature	°C (Note 1)	Continuous	Continuous	791	809	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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Monitoring Period		Dec-19					
Date Published		10 January 2020					
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EPA Licence Hyperlink		https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOELicence.aspx?DOCID=165894&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)		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	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)		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)
Explanatory Notes		No surface water discharge occurred from this monitoring point during the month					
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)
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)
Explanatory Notes		No surface water discharge occurred from this monitoring point during the month					
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)					
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)	470	488	498
Explanatory Notes		(Note 1) m ³ /h (cubic metres per hour) (Note 2) Zero value due to: 1. Flare was shutdown on 17th December 2019 for ~1 hour for flow meter calibration. Flare was restarted after calibration was completed. 2. Flare was shutdown on 18th December 2019 for ~23 hours due to scheduled power outage by Ausgrid. Loss of data occurred during the power outage on the 18th from 7:45am. Data recommenced recording at 11:15am. Flare was restarted on site on 19th December 2019.					



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Monitoring Period	September 2019 - December 2019. Surface water sampled 4th December 2019. Groundwater sampled 6th December 2019.			
Date Published	10 January 2020			
EPA Licence No.	13091			
EPA Licence Hyperlink	https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=165894&SYSUID=1&LICID=13091			
Licensee Name	KIMBRIKI ENVIRONMENTAL ENTERPRISES PTY LIMITED			
Licensee Address	PO BOX 196, Terrey Hills, NSW 2084			
Monitoring Location (EPA Point 1/11)	<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
Biochemical oxygen demand	mg/L (Note 1)	Special Frequency 1 (Note 2)	1	<5
Conductivity	µS/cm (Note 3)	Quarterly	1	390
Dissolved Oxygen	mg/L (Note 1)	Quarterly	1	8.0
Faecal Coliforms	org/100 mL (Note 4)	Quarterly	1	2000
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	0.06
pH	pH	Quarterly	1	8.0
Potassium	mg/L (Note 1)	Quarterly	1	8.4
Redox potential	mV (Note 5)	Quarterly	1	210.0
Total dissolved solids	mg/L (Note 1)	Quarterly	1	270
Total organic carbon	mg/L (Note 1)	Quarterly	1	9.5
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge (Note 3) µS/cm (microsiemens per centimetre) (Note 4) org/100 mL (colony forming units per 100 millilitres) (Note 5) mV (millivolts)			



Quarterly Summary of EPA Monitoring Data

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
Biochemical oxygen demand	mg/L (Note 1)	Special Frequency 1 (Note 2)	1	<20
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 3/12)		<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
Biochemical oxygen demand	mg/L (Note 1)	Special Frequency 1 (Note 2)	1	<5
Conductivity	µS/cm (Note 3)	Quarterly	1	360
Dissolved Oxygen	mg/L (Note 1)	Quarterly	1	8.7
Faecal Coliforms	org/100 mL (Note 4)	Quarterly	1	870
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	0.03
pH	pH	Quarterly	1	8.2
Potassium	mg/L (Note 1)	Quarterly	1	7.9
Redox potential	mV (Note 5)	Quarterly	1	220.0
Total dissolved solids	mg/L (Note 1)	Quarterly	1	220
Total organic carbon	mg/L (Note 1)	Quarterly	1	5.8
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge (Note 3) µS/cm (microsiemens per centimetre) (Note 4) org/100 mL (colony forming units per 100 millilitres) (Note 5) mV (millivolts)			
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.			

Quarterly Summary of EPA Monitoring Data

Monitoring Location (EPA Point 6)		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 6)</i>		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Explanatory Notes	This site could not be sampled on this monitoring run due to site works at the monitoring location.			
Monitoring Location (EPA Point 7)		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 7)</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 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	500
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.8
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	190
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.11
pH	pH	Quarterly	1	7.3
Potassium	mg/L (Note 2)	Quarterly	1	6.6
Redox potential	mV (Note 4)	Quarterly	1	240.0
Total dissolved solids	mg/L (Note 2)	Quarterly	1	330
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)			

Quarterly Summary of EPA Monitoring Data

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	500
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.9
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	<1
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.12
pH	pH	Quarterly	1	8.1
Potassium	mg/L (Note 2)	Quarterly	1	8.8
Redox potential	mV (Note 4)	Quarterly	1	210.0
Total dissolved solids	mg/L (Note 2)	Quarterly	1	320
Total organic carbon	mg/L (Note 2)	Quarterly	1	5.5
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 10)		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 10)</i>		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	4900
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	7.3
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	32
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	310
pH	pH	Quarterly	1	8.2
Potassium	mg/L (Note 2)	Quarterly	1	170.0
Redox potential	mV (Note 4)	Quarterly	1	210.0
Total dissolved solids	mg/L (Note 2)	Quarterly	1	2500
Total organic carbon	mg/L (Note 2)	Quarterly	1	89
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)			

Quarterly Summary of EPA Monitoring Data

Monitoring Location (EPA Point 13)		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 13)</i>		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	1200
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.3
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	<10
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	21.00
pH	pH	Quarterly	1	7.4
Potassium	mg/L (Note 2)	Quarterly	1	32
Redox potential	mV (Note 4)	Quarterly	1	200.0
Total dissolved solids	mg/L (Note 2)	Quarterly	1	610
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)			
Monitoring Location (EPA Point 14)		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 14)</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 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	990
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.2
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	<10
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	8.8
pH	pH	Quarterly	1	7.4
Potassium	mg/L (Note 2)	Quarterly	1	30
Redox potential	mV (Note 4)	Quarterly	1	210.0
Total dissolved solids	mg/L (Note 2)	Quarterly	1	500
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)			

Quarterly Summary of EPA Monitoring Data

Monitoring Location (EPA Point 16)		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 16)</i>		
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	2.4
Chloride	mg/L (Note 1)	Quarterly	1	130
Magnesium	mg/L (Note 1)	Quarterly	1	7.3
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	0.08
pH	pH units	Quarterly	1	5.6
Potassium	mg/L (Note 1)	Quarterly	1	1.1
Sodium	mg/L (Note 1)	Quarterly	1	33
Standing Water Level (TOC)	metres	Quarterly	1	17.20
Standing Water Level (m AHD)	metres	NA	NA	99.21
Sulfate	mg/L (Note 1)	Quarterly	1	6.7
Total dissolved solids	mg/L (Note 1)	Quarterly	1	160
Total organic carbon	mg/L (Note 1)	Quarterly	1	<5
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			
Monitoring Location (EPA Point 17)		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 17)</i>		
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	2.5
Chloride	mg/L (Note 1)	Quarterly	1	95
Magnesium	mg/L (Note 1)	Quarterly	1	7.6
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	0.14
pH	pH units	Quarterly	1	6.0
Potassium	mg/L (Note 1)	Quarterly	1	1.8
Sodium	mg/L (Note 1)	Quarterly	1	39
Standing Water Level (TOC)	metres	Quarterly	1	7.61
Standing Water Level (m AHD)	metres	NA	NA	62.20
Sulfate	mg/L (Note 1)	Quarterly	1	36
Total dissolved solids	mg/L (Note 1)	Quarterly	1	170
Total organic carbon	mg/L (Note 1)	Quarterly	1	<5
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			

Quarterly Summary of EPA Monitoring Data

Monitoring Location (EPA Point 18)		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 18)</i>		
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	390
Calcium	mg/L (Note 1)	Quarterly	1	12.0
Chloride	mg/L (Note 1)	Quarterly	1	190
Magnesium	mg/L (Note 1)	Quarterly	1	28
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	51
pH	pH units	Quarterly	1	7.3
Potassium	mg/L (Note 1)	Quarterly	1	33.0
Sodium	mg/L (Note 1)	Quarterly	1	130
Standing Water Level (TOC)	metres	Quarterly	1	14.71
Standing Water Level (m AHD)	metres	NA	NA	80.68
Sulfate	mg/L (Note 1)	Quarterly	1	59
Total dissolved solids	mg/L (Note 1)	Quarterly	1	650
Total organic carbon	mg/L (Note 1)	Quarterly	1	32
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			
Monitoring Location (EPA Point 19)		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 19)</i>		
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	560
Calcium	mg/L (Note 1)	Quarterly	1	57.0
Chloride	mg/L (Note 1)	Quarterly	1	570
Magnesium	mg/L (Note 1)	Quarterly	1	29
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	47
pH	pH units	Quarterly	1	7.3
Potassium	mg/L (Note 1)	Quarterly	1	57.0
Sodium	mg/L (Note 1)	Quarterly	1	150
Standing Water Level (TOC)	metres	Quarterly	1	3.85
Standing Water Level (m AHD)	metres	NA	NA	61.24
Sulfate	mg/L (Note 1)	Quarterly	1	<5
Total dissolved solids	mg/L (Note 1)	Quarterly	1	890
Total organic carbon	mg/L (Note 1)	Quarterly	1	61
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			

Quarterly Summary of EPA Monitoring Data

Monitoring Location (EPA Point 20)		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 20)</i>		
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	24
Calcium	mg/L (Note 1)	Quarterly	1	1.7
Chloride	mg/L (Note 1)	Quarterly	1	90
Magnesium	mg/L (Note 1)	Quarterly	1	4.4
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	0.03
pH	pH units	Quarterly	1	6.5
Potassium	mg/L (Note 1)	Quarterly	1	0.9
Sodium	mg/L (Note 1)	Quarterly	1	19
Standing Water Level (TOC)	metres	Quarterly	1	21.52
Standing Water Level (m AHD)	metres	NA	NA	100.11
Sulfate	mg/L (Note 1)	Quarterly	1	<5
Total dissolved solids	mg/L (Note 1)	Quarterly	1	120
Total organic carbon	mg/L (Note 1)	Quarterly	1	16
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			
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 quarter	Value
Biochemical oxygen demand	mg/L (Note 1)	Special Frequency 1 (Note 2)	1	<5
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge			

Peter,
Please review and sign
December 2019 Monthly
GPA Report.
No exceedances.

Belinda
9-1-20