



# EPA Monitoring Data Summary



*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 The information and data in this table must not be published elsewhere by any means without prior written consent from Kimbriki Environmental Enterprises.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](http://www.epa.nsw.gov.au)

Monitoring Period	Dec-22						
Date Published	06/01/2023						
EPA Licence No.	13091						
EPA Licence Hyperlink	<a href="https://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=211659&amp;SY SUID=1&amp;LICID=13091">https://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=211659&amp;SY SUID=1&amp;LICID=13091</a>						
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	Non-compliances (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	Non-compliances (yes/no)
Explanatory Notes	No surface water discharge occurred from this monitoring point during the month.						



# EPA Monitoring Data Summary



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	Non-compliances (yes/no)
Biochemical oxygen demand	mg/L (Note 1)	Special Frequency 1 (Note 2)	1	<2	<2	20	no
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	1	0.85	0.85	1	no
pH	pH	Daily during any discharge	1	7.75	7.75	6.5-8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	1	13.0	13.0	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	Non-compliances (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)	Non-compliances (yes/no)
Residence Time	seconds	Continuous	Continuous	0.7	1.5	0.6	no
Temperature	°C (Note 1)	Continuous	Continuous	791.6	805.4	760	no
Explanatory Notes	(Note 1) °C (degrees Celsius) (Note 2) The parameter value must <b>be greater than</b> the Lower Limit specified						



# Monthly Summary of EPA Monitoring Data - No Limit



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Monitoring Period	Dec-22						
Date Published	06/01/2023						
EPA Licence No.	13091						
EPA Licence Hyperlink	<a href="https://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=211659&amp;SYSUID=1&amp;LICID=13091">https://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=211659&amp;SYSUID=1&amp;LICID=13091</a>						
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	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)	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
Explanatory Notes	(Note 1) $\mu$ S/cm (microsiemens per centimetre)						
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	Mean value	Median value	Max. value
Conductivity	$\mu$ S/cm (Note 1)	Daily during any discharge	1	394	394	394	394
Explanatory Notes	(Note 1) $\mu$ S/cm (microsiemens per centimetre)						
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
Explanatory Notes	(Note 1) $\mu$ S/cm (microsiemens per centimetre)						
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)	399	424	481
Explanatory Notes	(Note 1) $m^3/h$ (cubic metres per hour) (Note 2) Zero value due to: 1. Flare was shut down on 3rd December 2022 for ~4.5 hours due to low methane that occurred out of business hours. The flare was restarted remotely. 2. Flare was shut down on 9th December 2022 for ~0.5 hours due to a flame failure. The flare was restarted remotely. 3. Flare was shut down on 12nd December 2022 for ~208.25 hours due to an issue with the circuit breaker switch in flare control panel on 12nd December 2022 and the battery back up ran out on the 13rd so no data was recorded and the flare was not operational between then and 21st December 2022. Replaced circuit breaker switch in flare control panel and restarted flare on 21st December 2022. 4. Flare was shut down on 23rd December 2022 for ~12.75 hours due to a power supply outage that occurred late at night. After the outage occurred, the flare could not be restarted remotely (by flaring system contractor) and on site (by KEE staff). The flaring system contractor attended site on 24th December 2022 to restart the flare.						



# Quarterly Summary of EPA Monitoring Data



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Monitoring Period	September 2022 - December 2022 (Quarterly) . Surface water sampled 06 December 2022. Groundwater sampled 06 December 2022			
Date Published	06/01/2023			
EPA Licence No.	13091			
EPA Licence Hyperlink	<a href="https://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=211659&amp;SYSUID=1&amp;LICID=13091">https://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=211659&amp;SYSUID=1&amp;LICID=13091</a>			
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	<2
Conductivity	µS/cm (Note 3)	Quarterly	1	389
Dissolved Oxygen	mg/L (Note 1)	Quarterly	1	7.60
Faecal Coliforms	org/100 mL (Note 4)	Quarterly	1	27
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	0.84
pH	pH	Quarterly	1	7.75
Potassium	mg/L (Note 1)	Quarterly	1	7.9
Redox potential	mV (Note 5)	Quarterly	1	164
Total dissolved solids	mg/L (Note 1)	Quarterly	1	262
Total organic carbon	mg/L (Note 1)	Quarterly	1	16.8
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)			



# 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	17
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	4
Conductivity	µS/cm (Note 3)	Quarterly	1	391
Dissolved Oxygen	mg/L (Note 1)	Quarterly	1	8.44
Faecal Coliforms	org/100 mL (Note 4)	Quarterly	1	~790
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	0.37
pH	pH	Quarterly	1	8.0
Potassium	mg/L (Note 1)	Quarterly	1	8.5
Redox potential	mV (Note 5)	Quarterly	1	184
Total dissolved solids	mg/L (Note 1)	Quarterly	1	218
Total organic carbon	mg/L (Note 1)	Quarterly	1	9.7
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 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	Sample could not be collected. This monitoring point could not be safely accessed due to construction of the clean water diversion system.			



# Quarterly Summary of EPA Monitoring Data



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
Explanatory Notes	Sample could not be collected. This monitoring point could not be safely accessed due to construction of the clean water diversion system.			
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	360
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	10.38
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	4800
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	<0.01
pH	pH	Quarterly	1	7.62
Potassium	mg/L (Note 2)	Quarterly	1	7.9
Redox potential	mV (Note 4)	Quarterly	1	122
Total dissolved solids	mg/L (Note 2)	Quarterly	1	198
Total organic carbon	mg/L (Note 2)	Quarterly	1	9.2
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)			



# Quarterly Summary of EPA Monitoring Data



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	4960
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	7.95
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	~940
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	336
pH	pH	Quarterly	1	7.77
Potassium	mg/L (Note 2)	Quarterly	1	162.0
Redox potential	mV (Note 4)	Quarterly	1	142
Total dissolved solids	mg/L (Note 2)	Quarterly	1	2000
Total organic carbon	mg/L (Note 2)	Quarterly	1	126.3
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)		<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	481
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.78
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	~800
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	1.85
pH	pH	Quarterly	1	7.33
Potassium	mg/L (Note 2)	Quarterly	1	14
Redox potential	mV (Note 4)	Quarterly	1	38
Total dissolved solids	mg/L (Note 2)	Quarterly	1	302
Total organic carbon	mg/L (Note 2)	Quarterly	1	8
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 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	Sample could not be collected as there was no flow at this location.			
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	481
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.69
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	~680
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	2.3
pH	pH	Quarterly	1	7.22
Potassium	mg/L (Note 2)	Quarterly	1	14.8
Redox potential	mV (Note 4)	Quarterly	1	35
Total dissolved solids	mg/L (Note 2)	Quarterly	1	285
Total organic carbon	mg/L (Note 2)	Quarterly	1	8.6
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 <b>quarter</b>	Value
Explanatory Notes		Sample could not be collected as the monitoring well was inoperable. This monitoring point is subject to a licence variation.		
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 <b>quarter</b>	Value
Alkalinity (as calcium carbonate)	mg/L (Note 1)	Quarterly	1	<5
Calcium	mg/L (Note 1)	Quarterly	1	1.89
Chloride	mg/L (Note 1)	Quarterly	1	61
Magnesium	mg/L (Note 1)	Quarterly	1	8.41
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	0.08
pH	pH units	Quarterly	1	5.8
Potassium	mg/L (Note 1)	Quarterly	1	1.4
Sodium	mg/L (Note 1)	Quarterly	1	47.5
Standing Water Level (TOC)	metres	Quarterly	1	7.48
Standing Water Level (m AHD)	metres	NA	NA	62.1
Sulfate	mg/L (Note 1)	Quarterly	1	13
Total dissolved solids	mg/L (Note 1)	Quarterly	1	206
Total organic carbon	mg/L (Note 1)	Quarterly	1	1.6
Explanatory Notes		(Note 1) mg/L (milligrams per litre)		



# Quarterly Summary of EPA Monitoring Data



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 <b>quarter</b>	Value
Alkalinity (as calcium carbonate)	mg/L (Note 1)	Quarterly	1	<5
Calcium	mg/L (Note 1)	Quarterly	1	38.7
Chloride	mg/L (Note 1)	Quarterly	1	170
Magnesium	mg/L (Note 1)	Quarterly	1	27.6
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	24.8
pH	pH units	Quarterly	1	6.3
Potassium	mg/L (Note 1)	Quarterly	1	46.2
Sodium	mg/L (Note 1)	Quarterly	1	126
Standing Water Level (TOC)	metres	Quarterly	1	4.00
Standing Water Level (m AHD)	metres	NA	NA	61.0
Sulfate	mg/L (Note 1)	Quarterly	1	<1
Total dissolved solids	mg/L (Note 1)	Quarterly	1	555
Total organic carbon	mg/L (Note 1)	Quarterly	1	26.8
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			
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 <b>quarter</b>	Value
Alkalinity (as calcium carbonate)	mg/L (Note 1)	Quarterly	1	<5
Calcium	mg/L (Note 1)	Quarterly	1	2.08
Chloride	mg/L (Note 1)	Quarterly	1	22
Magnesium	mg/L (Note 1)	Quarterly	1	5.2
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	0.03
pH	pH units	Quarterly	1	6.3
Potassium	mg/L (Note 1)	Quarterly	1	1.2
Sodium	mg/L (Note 1)	Quarterly	1	25.4
Standing Water Level (TOC)	metres	Quarterly	1	21.36
Standing Water Level (m AHD)	metres	NA	NA	100.30
Sulfate	mg/L (Note 1)	Quarterly	1	<1
Total dissolved solids	mg/L (Note 1)	Quarterly	1	110
Total organic carbon	mg/L (Note 1)	Quarterly	1	6.3
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			



# Quarterly Summary of EPA Monitoring Data



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 <b>quarter</b>	Value
Biochemical oxygen demand	mg/L (Note 1)	Special Frequency 1 (Note 2)	1	4
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge			