

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 The information and data in this table must not be published elsewhere by any means without prior written consent from Kimbriki Environmental Enterprises.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	Jun-19						
Date Published	16 July 2019						
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)
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	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	7	0.04	0.27	1	no
pH	pH	Daily during any discharge	7	7.48	8.10	6.5-8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	7	19.0	130.0	50	yes
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

Monitoring Location (EPA Point 22)		Enclosed Ground Level Flare in the North-Eastern corner of the Premises. Please refer to the map, <i>Kimbriki Monitoring Sites.pdf</i> , 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	787	805	760	No
Explanatory Notes	(Note 1) °C (degrees Celsius) (Note 2) The parameter value must <i>be greater than</i> the Lower Limit specified						

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Licensee Name	KIMBRIKI ENVIRONMENTAL ENTERPRISES PTY LIMITED					
Licensee Address	PO BOX 196, Terrey Hills, NSW 2084					
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	Five-day cumulative rainfall recorded on site (mm) (Note 1)
Total suspended solids	mg/L (Note 2)	Daily during any discharge	50	17/06/2019	63	14.5
Total suspended solids	mg/L (Note 2)	Daily during any discharge	50	18/06/2019	130	35.5
Total suspended solids	mg/L (Note 2)	Daily during any discharge	50	25/06/2019	88	37
Total suspended solids	mg/L (Note 2)	Daily during any discharge	50	26/06/2019	110	48
Total suspended solids	mg/L (Note 2)	Daily during any discharge	50	27/06/2019	120	52.5
Total suspended solids	mg/L (Note 2)	Daily during any discharge	50	30/06/2019	89	16
Explanatory Notes	<p>(Note 1) mm (millimetres) (Note 2) mg/L (milligrams per litre) (Note 3) After a dry month (12mm of rainfall received on site in May 2019), water was retained in sediment basins due to insufficient water available for reuse in dust suppression. In addition to this, the western basins (i.e. EPA 1 and EPA 21) were being used to treat runoff from intermittent minor rainfall events occurring during the month of June 2019. Hence the lower western basin (i.e. EPA 21) overflowed on the days when total suspended solids exceedance was recorded. Kimbriki will continue to maintain sediment basins in low flow periods to prepare for impending rainfall. This includes supplementing stormwater with town water as required for dust suppression activities. Kimbriki perform daily inspections of sediment controls and proactively maintain controls by all means practicable to ensure potential for suspended solids discharge is minimised.</p>					

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Monitoring Period	Jun-19						
Date Published	16 July 2019						
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>						
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 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
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	7	278	363	340	525
Explanatory Notes	(Note 1) µS/cm (microsiemens per centimetre)						
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)	461	470	488
Explanatory Notes	(Note 1) m ³ /h (cubic metres per hour) (Note 2) Zero value due to: 1. Flare was shutdown on 12th June 2019 for ~12.5 hours due to utility trip resulting in power outage. Flare was restarted remotely. 2. Flare was shutdown on 13th June 2019 for ~2.5 hours due to issues with local wires. Flare was restarted on site.						

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Monitoring Period	March 2019 - June 2019 (Quarterly). Surface water sampled 13 June 2019. Groundwater sampled 12 June 2019.			
Date Published	16 July 2019			
EPA Licence No.	13091			
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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
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
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			
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)		<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		No flow at this monitoring point due to dry weather.		
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
Conductivity	µS/cm (Note 1)	Quarterly	1	420
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.8
Faecal Coliforms	org/100 mL (Note 3)	Quarterly	1	790
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.26
pH	pH	Quarterly	1	7.9
Potassium	mg/L (Note 2)	Quarterly	1	3.8
Redox potential	mV (Note 4)	Quarterly	1	180
Total dissolved solids	mg/L (Note 2)	Quarterly	1	250
Total organic carbon	mg/L (Note 2)	Quarterly	1	18
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 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	450
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.8
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	91
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.06
pH	pH	Quarterly	1	8.8
Potassium	mg/L (Note 2)	Quarterly	1	8.5
Redox potential	mV (Note 4)	Quarterly	1	150
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)			
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	9.2
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	650
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.54
pH	pH	Quarterly	1	8.3
Potassium	mg/L (Note 2)	Quarterly	1	11
Redox potential	mV (Note 4)	Quarterly	1	230
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)			

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	5700
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	6.2
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	>24000
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	260
pH	pH	Quarterly	1	8.1
Potassium	mg/L (Note 2)	Quarterly	1	250
Redox potential	mV (Note 4)	Quarterly	1	250
Total dissolved solids	mg/L (Note 2)	Quarterly	1	2200
Total organic carbon	mg/L (Note 2)	Quarterly	1	430
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	1300
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.9
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	<10
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	18
pH	pH	Quarterly	1	7.7
Potassium	mg/L (Note 2)	Quarterly	1	33
Redox potential	mV (Note 4)	Quarterly	1	300
Total dissolved solids	mg/L (Note 2)	Quarterly	1	620
Total organic carbon	mg/L (Note 2)	Quarterly	1	65
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.			

Quarterly Summary of EPA Monitoring Data

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	890
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.5
Faecal Coliforms	org/100 mL (Note3)	Quarterly	1	1400
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	7.2
pH	pH	Quarterly	1	8.0
Potassium	mg/L (Note 2)	Quarterly	1	25
Redox potential	mV (Note 4)	Quarterly	1	260.0
Total dissolved solids	mg/L (Note 2)	Quarterly	1	450
Total organic carbon	mg/L (Note 2)	Quarterly	1	37
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 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	21
Calcium	mg/L (Note 1)	Quarterly	1	2.3
Chloride	mg/L (Note 1)	Quarterly	1	100
Magnesium	mg/L (Note 1)	Quarterly	1	8.5
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	0.33
pH	pH units	Quarterly	1	6.4
Potassium	mg/L (Note 1)	Quarterly	1	1.3
Sodium	mg/L (Note 1)	Quarterly	1	42
Standing Water Level (TOC)	metres	Quarterly	1	16.93
Standing Water Level (m AHD)	metres	NA	NA	99.48
Sulfate	mg/L (Note 1)	Quarterly	1	<5
Total dissolved solids	mg/L (Note 1)	Quarterly	1	180
Total organic carbon	mg/L (Note 1)	Quarterly	1	20
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			

Quarterly Summary of EPA Monitoring Data

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	3.0
Chloride	mg/L (Note 1)	Quarterly	1	98
Magnesium	mg/L (Note 1)	Quarterly	1	8.9
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	0.24
pH	pH units	Quarterly	1	6.4
Potassium	mg/L (Note 1)	Quarterly	1	2.4
Sodium	mg/L (Note 1)	Quarterly	1	44
Standing Water Level (TOC)	metres	Quarterly	1	7.52
Standing Water Level (m AHD)	metres	NA	NA	62.29
Sulfate	mg/L (Note 1)	Quarterly	1	31
Total dissolved solids	mg/L (Note 1)	Quarterly	1	210
Total organic carbon	mg/L (Note 1)	Quarterly	1	11
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			
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	470
Calcium	mg/L (Note 1)	Quarterly	1	21
Chloride	mg/L (Note 1)	Quarterly	1	310
Magnesium	mg/L (Note 1)	Quarterly	1	44
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	47
pH	pH units	Quarterly	1	7.3
Potassium	mg/L (Note 1)	Quarterly	1	62
Sodium	mg/L (Note 1)	Quarterly	1	210
Standing Water Level (TOC)	metres	Quarterly	1	14.31
Standing Water Level (m AHD)	metres	NA	NA	81.07
Sulfate	mg/L (Note 1)	Quarterly	1	56
Total dissolved solids	mg/L (Note 1)	Quarterly	1	2000
Total organic carbon	mg/L (Note 1)	Quarterly	1	130
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 quarter	Value
Alkalinity (as calcium carbonate)	mg/L (Note 1)	Quarterly	1	510
Calcium	mg/L (Note 1)	Quarterly	1	66
Chloride	mg/L (Note 1)	Quarterly	1	270
Magnesium	mg/L (Note 1)	Quarterly	1	34
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	23
pH	pH units	Quarterly	1	6.7
Potassium	mg/L (Note 1)	Quarterly	1	70
Sodium	mg/L (Note 1)	Quarterly	1	180
Standing Water Level (TOC)	metres	Quarterly	1	4.14
Standing Water Level (m AHD)	metres	NA	NA	60.94
Sulfate	mg/L (Note 1)	Quarterly	1	<5
Total dissolved solids	mg/L (Note 1)	Quarterly	1	1700
Total organic carbon	mg/L (Note 1)	Quarterly	1	150
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 quarter	Value
Alkalinity (as calcium carbonate)	mg/L (Note 1)	Quarterly	1	<20
Calcium	mg/L (Note 1)	Quarterly	1	2.3
Chloride	mg/L (Note 1)	Quarterly	1	53
Magnesium	mg/L (Note 1)	Quarterly	1	4.6
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	0.16
pH	pH units	Quarterly	1	6.6
Potassium	mg/L (Note 1)	Quarterly	1	1.1
Sodium	mg/L (Note 1)	Quarterly	1	23
Standing Water Level (TOC)	metres	Quarterly	1	21.43
Standing Water Level (m AHD)	metres	NA	NA	100.20
Sulfate	mg/L (Note 1)	Quarterly	1	<5
Total dissolved solids	mg/L (Note 1)	Quarterly	1	100
Total organic carbon	mg/L (Note 1)	Quarterly	1	23
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 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			