

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 The information and data in this table must not be published elsewhere by any means without prior written consent from Kimbriki Environmental Enterprises.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	Mar-19						
Date Published	16 April 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)	Please refer to the map, <i>Kimbriki Monitoring Sites.pdf</i> , 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)
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	0.22	0.22	1	no
pH	pH	Daily during any discharge	1	7.52	7.52	6.5-8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	1	18.0	18.0	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 2)	Please refer to the map, <i>Kimbriki Monitoring Sites.pdf</i> , 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.						

Monthly Summary of EPA Monitoring Data with Limits

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)
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	8	0.06	0.21	1	no
pH	pH	Daily during any discharge	8	7.42	8.27	6.5-8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	8	6.9	280.0	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) No exceedance recorded on 15th to 17th March 2019 due to five-day cumulative rainfall exceeding the five-day duration 90th percentile rainfall event allowance for discharge at the premises (being 62.1mm). However there were exceedances recorded for 30th and 31st March - refer to Exceedance Table for more information. Kimbriki perform daily inspection of sediment controls and proactively maintain controls by all means practicable to ensure potential for suspended solid discharge is minimised.					
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	2.0	0.6	No
Temperature	°C (Note 1)	Continuous	Continuous	783	816	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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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	30/03/2019	120 (Note 3)	24.5
Total suspended solids	mg/L (Note 2)	Daily during any discharge	50	31/03/2019	140 (Note 3)	27.5
Explanatory Notes	<p>(Note 1) mm (millimetres) (Note 2) mg/L (milligrams per litre) (Note 3) While the 5-day cumulative rainfall at the time of exceedance on 30th and 31st March 2019 did not meet the 62.1mm threshold, the result is attributable to the significant amount of rainfall received during the month (275mm) and initial earthworks in Area 4A for development of the new landfill cell. The 275mm of rainfall is just under the 95th percentile monthly rainfall at the premises. For a short time the western basins (i.e. EPA 1 and EPA 21) were used to treat runoff from the initial excavation in Area 4A and during the process of preparing them in readiness for rainfall, a minor rainfall event occurred. Kimbriki perform daily inspection 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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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, <i>Kimbriki Monitoring Sites.pdf</i> , 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	1	273	273	273	273
Explanatory Notes		(Note 1) µS/cm (microsiemens per centimetre)					
Monitoring Location (EPA Point 2)		Please refer to the map, <i>Kimbriki Monitoring Sites.pdf</i> , 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		No surface water discharge occurred from this monitoring point during the month.					
Monitoring Location (EPA Point 3)		Please refer to the map, <i>Kimbriki Monitoring Sites.pdf</i> , 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
Explanatory Notes		No surface water discharge occurred from this monitoring point during the month.					
Monitoring Location (EPA Point 21)		Please refer to the map, <i>Kimbriki Monitoring Sites.pdf</i> , 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	8	228	325	336	443
Explanatory Notes		(Note 1) µS/cm (microsiemens per centimetre)					

Monthly Summary of EPA Monitoring Data - No Limit

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)	382	416	493
Explanatory Notes	<p>(Note 1) m³/h (cubic metres per hour)</p> <p>(Note 2) Zero value due to:</p> <ol style="list-style-type: none"> 1. Flare was shutdown on 14th March 2019 for 9.5 hours as a result of a power trip due to storm. Flare was restarted remotely. 2. Flare was shutdown for 48 hours from 16th March 2019 due to blower fault, phase failure and issues with restarting the flare. Flare was restarted after resetting a circuit breaker and compressor overload switch. 3. Flare was shutdown on 19th March 2019 for 3.0 hours due to power outage. Flare was restarted remotely. Loss of data between 14:30 and 17:15 due to power being off. 4. Flare was shutdown on 20th March 2019 for 0.5 hours due to power supply outage. Flare was reset and restarted remotely. 5. Flare was shutdown on 30th March 2019 for 3.0 hours due to power supply outage. Flare was restarted remotely. 						

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Monitoring Period	December 2018 - March 2019 (Quarterly). + March 2018 -March 2019 (Yearly). Surface water sampled 19th and 27th March 2019. Groundwater sampled 20th March 2019.			
Date Published	16 April 2019			
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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/year	Value
Biochemical oxygen demand	mg/L (Note 1)	Special Frequency 1 (Note 2)	1	<5
Conductivity	µS/cm (Note 3)	Quarterly	1	290
Dissolved Oxygen	mg/L (Note 1)	Quarterly	1	8.5
Faecal Coliforms	org/100 mL (Note 4)	Quarterly	1	1100
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	0.11
pH	pH	Quarterly	1	7.5
Potassium	mg/L (Note 1)	Quarterly	1	7.7
Redox potential	mV (Note 5)	Quarterly	1	150
Total dissolved solids	mg/L (Note 1)	Quarterly	1	180
Total organic carbon	mg/L (Note 1)	Quarterly	1	25
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 + Yearly 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/year	Value
Biochemical oxygen demand	mg/L (Note 1)	Special Frequency 1 (Note 2)	1	
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/year	Value
Biochemical oxygen demand	mg/L (Note 1)	Special Frequency 1 (Note 2)	1	97
Conductivity	µS/cm (Note 3)	Quarterly	1	1100
Dissolved Oxygen	mg/L (Note 1)	Quarterly	1	1.1
Faecal Coliforms	org/100 mL (Note 4)	Quarterly	1	17000
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	9.60
pH	pH	Quarterly	1	7.8
Potassium	mg/L (Note 1)	Quarterly	1	120
Redox potential	mV (Note 5)	Quarterly	1	86
Total dissolved solids	mg/L (Note 1)	Quarterly	1	770
Total organic carbon	mg/L (Note 1)	Quarterly	1	180
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 + Yearly Summary of EPA Monitoring Data

Monitoring Location (EPA Point 4) Leachate Holding Riser - no discharge from site.		<i>Please refer to the map, Kimbriki Monitoring Sites.pdf, for location (EPA 4)</i>		
Pollutant	Units of measure	Monitoring frequency required by licence	No. of times measured during quarter/year	Value
Alkalinity (as calcium carbonate)	mg/L (Note 1)	yearly	1	2100
Aluminium	mg/L (Note 1)	yearly	1	<0.05
Arsenic	mg/L (Note 1)	yearly	1	0.014
Barium	mg/L (Note 1)	yearly	1	0.80
Benzene	mg/L (Note 1)	yearly	1	<0.004
Cadmium	mg/L (Note 1)	yearly	1	<0.0002
Calcium	mg/L (Note 1)	yearly	1	120
Chloride	mg/L (Note 1)	yearly	1	500
Chromium (hexavalent)	mg/L (Note 1)	yearly	1	<0.005
Chromium (total)	mg/L (Note 1)	yearly	1	0.063
Cobalt	mg/L (Note 1)	yearly	1	0.006
Conductivity	µS/cm (Note 2)	yearly	1	5600
Copper	mg/L (Note 1)	yearly	1	0.002
Ethylbenzene	mg/L (Note 1)	yearly	1	<0.004
Fluoride	mg/L (Note 1)	yearly	1	<0.5
Lead	mg/L (Note 1)	yearly	1	<0.001
Magnesium	mg/L (Note 1)	yearly	1	55
Manganese	mg/L (Note 1)	yearly	1	0.2
Mercury	mg/L (Note 1)	yearly	1	<0.0001
Nitrate + Nitrite (oxidised nitrogen)	mg/L (Note 1)	yearly	1	<0.05
Nitrogen (Ammonia)	mg/L (Note 1)	yearly	1	750
Organochlorine pesticides	mg/L (Note 1)	yearly	1	<0.01
Organophosphate pesticides	mg/L (Note 1)	yearly	1	<0.02
Ortho phosphate	mg/L (Note 1)	yearly	1	0.03
pH	pH units	yearly	1	7.5
Phosphorus (total)	mg/L (Note 1)	yearly	1	0.1
Polycyclic aromatic hydrocarbons	mg/L (Note 1)	yearly	1	<0.001
Potassium	mg/L (Note 1)	yearly	1	180
Sodium	mg/L (Note 1)	yearly	1	340
Standing Water Level (m below TOC)	metres	yearly	1	In situ

Quarterly + Yearly Summary of EPA Monitoring Data

Standing Water Level (m AHD)	metres	yearly	1	In situ
Sulphate	mg/L (Note 1)	yearly	1	31
Toluene	mg/L (Note 1)	yearly	1	<0.004
Total Dissolved Solids - TDS	mg/L (Note 1)	yearly	1	1900
Total Organic Carbon - TOC	mg/L (Note 1)	yearly	1	49
Total Petroleum Hydrocarbons	mg/L (Note 1)	yearly	1	1.18
Total Phenolics	mg/L (Note 1)	yearly	1	<0.05
Total Suspended Solids	mg/L (Note 1)	yearly	1	22
Xylene	mg/L (Note 1)	yearly	1	<0.012
Zinc	mg/L (Note 1)	yearly	1	0.007
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) μ S/cm (microsiemens per centimetre)			

Quarterly + Yearly Summary of EPA Monitoring Data

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/year	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	690
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.1
Faecal Coliforms	org/100 mL (Note 3)	Quarterly	1	>2400
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	<0.01
pH	pH	Quarterly	1	7.8
Potassium	mg/L (Note 2)	Quarterly	1	2.6
Redox potential	mV (Note 4)	Quarterly	1	160.0
Total dissolved solids	mg/L (Note 2)	Quarterly	1	380
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 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/year	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	470
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.1
Faecal Coliforms	org/100 mL (Note 3)	Quarterly	1	730
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	<0.01
pH	pH	Quarterly	1	7.7
Potassium	mg/L (Note 2)	Quarterly	1	2.5
Redox potential	mV (Note 4)	Quarterly	1	220
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 + Yearly Summary of EPA Monitoring Data

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/year	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	400
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.6
Faecal Coliforms	org/100 mL (Note 3)	Quarterly	1	>2400
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	<0.01
pH	pH	Quarterly	1	7.4
Potassium	mg/L (Note 2)	Quarterly	1	5.4
Redox potential	mV (Note 4)	Quarterly	1	190
Total dissolved solids	mg/L (Note 2)	Quarterly	1	230
Total organic carbon	mg/L (Note 2)	Quarterly	1	16
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)		<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/year	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	410
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.1
Faecal Coliforms	org/100 mL (Note 3)	Quarterly	1	>2400
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.03
pH	pH	Quarterly	1	8.0
Potassium	mg/L (Note 2)	Quarterly	1	6.6
Redox potential	mV (Note 4)	Quarterly	1	180.0
Total dissolved solids	mg/L (Note 2)	Quarterly	1	230
Total organic carbon	mg/L (Note 2)	Quarterly	1	16
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 + Yearly 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/year	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	440
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.1
Faecal Coliforms	org/100 mL (Note 3)	Quarterly	1	2400
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.18
pH	pH	Quarterly	1	7.9
Potassium	mg/L (Note 2)	Quarterly	1	7.4
Redox potential	mV (Note 4)	Quarterly	1	150.0
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)			
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/year	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	5000
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	4.3
Faecal Coliforms	org/100 mL (Note 3)	Quarterly	1	>24000
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	290
pH	pH	Quarterly	1	7.6
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	2000
Total organic carbon	mg/L (Note 2)	Quarterly	1	300
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 + Yearly 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/year	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	350
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.8
Faecal Coliforms	org/100 mL (Note 3)	Quarterly	1	1000
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.08
pH	pH	Quarterly	1	7.7
Potassium	mg/L (Note 2)	Quarterly	1	7
Redox potential	mV (Note 4)	Quarterly	1	190.0
Total dissolved solids	mg/L (Note 2)	Quarterly	1	210
Total organic carbon	mg/L (Note 2)	Quarterly	1	23
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/year	Value
Explanatory Notes	Sample could not be collected as there was no flow at this location.			

Quarterly + Yearly 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/year	Value
Conductivity	µS/cm (Note 1)	Quarterly	1	420
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	4.9
Faecal Coliforms	org/100 mL (Note 3)	Quarterly	1	>2400
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.26
pH	pH	Quarterly	1	7.5
Potassium	mg/L (Note 2)	Quarterly	1	18
Redox potential	mV (Note 4)	Quarterly	1	210.0
Total dissolved solids	mg/L (Note 2)	Quarterly	1	260
Total organic carbon	mg/L (Note 2)	Quarterly	1	42
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/year	Value
Alkalinity (as calcium carbonate)	mg/L (Note 1)	Quarterly	1	21
Aluminium	mg/L (Note 1)	Yearly	1	0.13
Arsenic	mg/L (Note 1)	Yearly	1	<0.001
Barium	mg/L (Note 1)	Yearly	1	0.08
Benzene	mg/L (Note 1)	Yearly	1	<0.001
Cadmium	mg/L (Note 1)	Yearly	1	<0.0002
Calcium	mg/L (Note 1)	Quarterly	1	3.2
Chloride	mg/L (Note 1)	Quarterly	1	83
Chromium (hexavalent)	mg/L (Note 1)	Yearly	1	<0.005
Chromium (total)	mg/L (Note 1)	Yearly	1	<0.001
Cobalt	mg/L (Note 1)	Yearly	1	0.007
Copper	mg/L (Note 1)	Yearly	1	0.002
Ethylbenzene	mg/L (Note 1)	Yearly	1	<0.001
Fluoride	mg/L (Note 1)	Yearly	1	<0.5
Lead	mg/L (Note 1)	Yearly	1	0.003
Magnesium	mg/L (Note 1)	Quarterly	1	8
Manganese	mg/L (Note 1)	Yearly	1	0.8
Mercury	mg/L (Note 1)	Yearly	1	<0.0001

Quarterly + Yearly Summary of EPA Monitoring Data

Nitrate + Nitrite (oxidised)	mg/L (Note 1)	Yearly	1	<0.05
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	0.04
Organochlorine pesticides	mg/L (Note 1)	Yearly	1	<0.01
Organophosphate pesticides	mg/L (Note 1)	Yearly	1	<0.02
pH	pH units	Quarterly	1	5.9
Polycyclic Aromatic Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.001
Potassium	mg/L (Note 1)	Quarterly	1	1.1
Sodium	mg/L (Note 1)	Quarterly	1	39
Standing Water Level (TOC)	metres	Quarterly	1	16.18
Standing Water Level (m AHD)	metres	NA	NA	100.23
Sulfate	mg/L (Note 1)	Quarterly	1	<5
Toluene	mg/L (Note 1)	Yearly	1	0.001
Total dissolved solids	mg/L (Note 1)	Quarterly	1	180
Total organic carbon	mg/L (Note 1)	Quarterly	1	11
Total Petroleum Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.1
Total Phenolics	mg/L (Note 1)	Yearly	1	<0.05
Xylene	mg/L (Note 1)	Yearly	1	<0.003
Zinc	mg/L (Note 1)	Yearly	1	0.033
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			

Quarterly + Yearly 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/year	Value
Alkalinity (as calcium carbonate)	mg/L (Note 1)	Quarterly	1	<20
Aluminium	mg/L (Note 1)	Yearly	1	<0.05
Arsenic	mg/L (Note 1)	Yearly	1	<0.001
Barium	mg/L (Note 1)	Yearly	1	0.06
Benzene	mg/L (Note 1)	Yearly	1	<0.001
Cadmium	mg/L (Note 1)	Yearly	1	<0.0002
Calcium	mg/L (Note 1)	Quarterly	1	3.3
Chloride	mg/L (Note 1)	Quarterly	1	85
Chromium (hexavalent)	mg/L (Note 1)	Yearly	1	0.020
Chromium (total)	mg/L (Note 1)	Yearly	1	<0.001
Cobalt	mg/L (Note 1)	Yearly	1	0.007
Copper	mg/L (Note 1)	Yearly	1	0.002
Ethylbenzene	mg/L (Note 1)	Yearly	1	<0.001
Fluoride	mg/L (Note 1)	Yearly	1	<0.5
Lead	mg/L (Note 1)	Yearly	1	<0.001
Magnesium	mg/L (Note 1)	Quarterly	1	8.7
Manganese	mg/L (Note 1)	Yearly	1	0.71
Mercury	mg/L (Note 1)	Yearly	1	<0.0001
Nitrate + Nitrite (oxidised)	mg/L (Note 1)	Yearly	1	0.06
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	0.24
Organochlorine pesticides	mg/L (Note 1)	Yearly	1	<0.01
Organophosphate pesticides	mg/L (Note 1)	Yearly	1	<0.02
pH	pH units	Quarterly	1	5.8
Polycyclic Aromatic Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.001
Potassium	mg/L (Note 1)	Quarterly	1	2.4
Sodium	mg/L (Note 1)	Quarterly	1	46
Standing Water Level (TOC)	metres	Quarterly	1	6.86
Standing Water Level (m AHD)	metres	NA	NA	62.95
Sulfate	mg/L (Note 1)	Quarterly	1	35
Toluene	mg/L (Note 1)	Yearly	1	<0.001
Total dissolved solids	mg/L (Note 1)	Quarterly	1	240
Total organic carbon	mg/L (Note 1)	Quarterly	1	21

Quarterly + Yearly Summary of EPA Monitoring Data

Total Petroleum Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.1
Total Phenolics	mg/L (Note 1)	Yearly	1	<0.05
Xylene	mg/L (Note 1)	Yearly	1	<0.003
Zinc	mg/L (Note 1)	Yearly	1	0.017
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/year	Value
Alkalinity (as calcium carbonate)	mg/L (Note 1)	Quarterly	1	400
Aluminium	mg/L (Note 1)	Yearly	1	0.16
Arsenic	mg/L (Note 1)	Yearly	1	0.002
Barium	mg/L (Note 1)	Yearly	1	0.42
Benzene	mg/L (Note 1)	Yearly	1	<0.004
Cadmium	mg/L (Note 1)	Yearly	1	<0.0002
Calcium	mg/L (Note 1)	Quarterly	1	16
Chloride	mg/L (Note 1)	Quarterly	1	240
Chromium (hexavalent)	mg/L (Note 1)	Yearly	1	<0.005
Chromium (total)	mg/L (Note 1)	Yearly	1	0.003
Cobalt	mg/L (Note 1)	Yearly	1	0.016
Copper	mg/L (Note 1)	Yearly	1	0.003
Ethylbenzene	mg/L (Note 1)	Yearly	1	<0.004
Fluoride	mg/L (Note 1)	Yearly	1	<0.5
Lead	mg/L (Note 1)	Yearly	1	0.006
Magnesium	mg/L (Note 1)	Quarterly	1	31
Manganese	mg/L (Note 1)	Yearly	1	9
Mercury	mg/L (Note 1)	Yearly	1	<0.0001
Nitrate + Nitrite (oxidised)	mg/L (Note 1)	Yearly	1	0.22
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	58
Organochlorine pesticides	mg/L (Note 1)	Yearly	1	<0.01
Organophosphate pesticides	mg/L (Note 1)	Yearly	1	<0.02
pH	pH units	Quarterly	1	6.8
Polycyclic Aromatic Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.001
Potassium	mg/L (Note 1)	Quarterly	1	45
Sodium	mg/L (Note 1)	Quarterly	1	160



Quarterly + Yearly Summary of EPA Monitoring Data

Standing Water Level (TOC)	metres	Quarterly	1	14.60
Standing Water Level (m AHD)	metres	NA	NA	80.78
Sulfate	mg/L (Note 1)	Quarterly	1	44
Toluene	mg/L (Note 1)	Yearly	1	<0.004
Total dissolved solids	mg/L (Note 1)	Quarterly	1	710
Total organic carbon	mg/L (Note 1)	Quarterly	1	67
Total Petroleum Hydrocarbons	mg/L (Note 1)	Yearly	1	0.48
Total Phenolics	mg/L (Note 1)	Yearly	1	<0.05
Xylene	mg/L (Note 1)	Yearly	1	<0.012
Zinc	mg/L (Note 1)	Yearly	1	0.041
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			

Quarterly + Yearly 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/year	Value
Alkalinity (as calcium carbonate)	mg/L (Note 1)	Quarterly	1	110
Aluminium	mg/L (Note 1)	Yearly	1	<0.05
Arsenic	mg/L (Note 1)	Yearly	1	<0.001
Barium	mg/L (Note 1)	Yearly	1	0.11
Benzene	mg/L (Note 1)	Yearly	1	<0.004
Cadmium	mg/L (Note 1)	Yearly	1	<0.0002
Calcium	mg/L (Note 1)	Quarterly	1	15
Chloride	mg/L (Note 1)	Quarterly	1	180
Chromium (hexavalent)	mg/L (Note 1)	Yearly	1	0.048
Chromium (total)	mg/L (Note 1)	Yearly	1	0.002
Cobalt	mg/L (Note 1)	Yearly	1	<0.001
Copper	mg/L (Note 1)	Yearly	1	0.002
Ethylbenzene	mg/L (Note 1)	Yearly	1	<0.004
Fluoride	mg/L (Note 1)	Yearly	1	<0.5
Lead	mg/L (Note 1)	Yearly	1	<0.001
Magnesium	mg/L (Note 1)	Quarterly	1	10
Manganese	mg/L (Note 1)	Yearly	1	0.25
Mercury	mg/L (Note 1)	Yearly	1	<0.0001
Nitrate + Nitrite (oxidised)	mg/L (Note 1)	Yearly	1	0.17
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	10
Organochlorine pesticides	mg/L (Note 1)	Yearly	1	<0.01
Organophosphate pesticides	mg/L (Note 1)	Yearly	1	<0.02
pH	pH units	Quarterly	1	6.4
Polycyclic Aromatic Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.001
Potassium	mg/L (Note 1)	Quarterly	1	32
Sodium	mg/L (Note 1)	Quarterly	1	80
Standing Water Level (TOC)	metres	Quarterly	1	3.39
Standing Water Level (m AHD)	metres	NA	NA	61.69
Sulfate	mg/L (Note 1)	Quarterly	1	20
Toluene	mg/L (Note 1)	Yearly	1	<0.004
Total dissolved solids	mg/L (Note 1)	Quarterly	1	500
Total organic carbon	mg/L (Note 1)	Quarterly	1	38

Quarterly + Yearly Summary of EPA Monitoring Data

Total Petroleum Hydrocarbons	mg/L (Note 1)	Yearly	1	0.26
Total Phenolics	mg/L (Note 1)	Yearly	1	<0.05
Xylene	mg/L (Note 1)	Yearly	1	<0.012
Zinc	mg/L (Note 1)	Yearly	1	0.012
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/year	Value
Alkalinity (as calcium carbonate)	mg/L (Note 1)	Quarterly	1	30
Aluminium	mg/L (Note 1)	Yearly	1	0.20
Arsenic	mg/L (Note 1)	Yearly	1	0.002
Barium	mg/L (Note 1)	Yearly	1	0.14
Benzene	mg/L (Note 1)	Yearly	1	<0.001
Cadmium	mg/L (Note 1)	Yearly	1	<0.0002
Calcium	mg/L (Note 1)	Quarterly	1	1.9
Chloride	mg/L (Note 1)	Quarterly	1	40
Chromium (hexavalent)	mg/L (Note 1)	Yearly	1	<0.005
Chromium (total)	mg/L (Note 1)	Yearly	1	<0.001
Cobalt	mg/L (Note 1)	Yearly	1	0.002
Copper	mg/L (Note 1)	Yearly	1	0.002
Ethylbenzene	mg/L (Note 1)	Yearly	1	<0.001
Fluoride	mg/L (Note 1)	Yearly	1	<0.5
Lead	mg/L (Note 1)	Yearly	1	0.001
Magnesium	mg/L (Note 1)	Quarterly	1	4.2
Manganese	mg/L (Note 1)	Yearly	1	0.52
Mercury	mg/L (Note 1)	Yearly	1	<0.0001
Nitrate + Nitrite (oxidised)	mg/L (Note 1)	Yearly	1	<0.05
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	0.66
Organochlorine pesticides	mg/L (Note 1)	Yearly	1	<0.01
Organophosphate pesticides	mg/L (Note 1)	Yearly	1	<0.02
pH	pH units	Quarterly	1	6.3
Polycyclic Aromatic Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.001
Potassium	mg/L (Note 1)	Quarterly	1	0.9
Sodium	mg/L (Note 1)	Quarterly	1	21

Quarterly + Yearly Summary of EPA Monitoring Data

Standing Water Level (TOC)	metres	Quarterly	1	21.47
Standing Water Level (m AHD)	metres	NA	NA	100.16
Sulfate	mg/L (Note 1)	Quarterly	1	<5
Toluene	mg/L (Note 1)	Yearly	1	0.003
Total dissolved solids	mg/L (Note 1)	Quarterly	1	120
Total organic carbon	mg/L (Note 1)	Quarterly	1	24
Total Petroleum Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.1
Total Phenolics	mg/L (Note 1)	Yearly	1	<0.05
Xylene	mg/L (Note 1)	Yearly	1	<0.003
Zinc	mg/L (Note 1)	Yearly	1	0.033
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/year	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			