



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 The information and data in this table must not be published elsewhere by any means without prior written consent from Kimbriki Environmental Enterprises.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

Monitoring Period	Mar-23						
Date Published	14 April 2023						
EPA Licence No.	13091						
EPA Licence Hyperlink	https://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=211659&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	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, <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	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)
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	Non-compliances (yes/no)
Biochemical oxygen demand	mg/L (Note 1)	Special Frequency 1 (Note 2)	2	<2	<2	20	no
Nitrogen (ammonia)	mg/L (Note 1)	Daily during any discharge	2	0.03	0.04	1	no
pH	pH	Daily during any discharge	2	7.86	7.95	6.5-8.5	no
Total suspended solids	mg/L (Note 1)	Daily during any discharge	2	6.0	8.0	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 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	0.8	1.2	0.6	no
Temperature	°C (Note 1)	Continuous	Continuous	794.2	804.3	760	no
Explanatory Notes		(Note 1) °C (degrees Celsius) (Note 2) The parameter value must be greater than the Lower Limit specified					



Non-compliances



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Date Published	14 April 2023					
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EPA Licence Hyperlink	https://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=211659&SYSUID=1&LICID=13091					
Licensee Name	KIMBRIKI ENVIRONMENTAL ENTERPRISES PTY LIMITED					
Licensee Address	PO BOX 196, Terrey Hills, NSW 2084					
Monitoring Location (EPA Points 4)	Please refer to the map, Kimbriki Monitoring Sites.pdf, for locations					
Pollutant	Units of measure	Monitoring frequency required by licence	100 percentile limit	Date of non-compliance	Value	Five-day cumulative rainfall recorded on site (mm) (Note 1)
See 'Yearly Summary of EPA Monitoring Data' table	See 'Quarterly + Yearly Summary of EPA Monitoring Data' table	Yearly	N/A	24/3/2023	unavailable (Note 1)	N/A
Explanatory Notes	(Note 1) A new NATA-accredited laboratory conducts Kimbriki's yearly ground water monitoring rounds. The laboratory sent the report for the March 2023 yearly monitoring round to Kimbriki in mid-April 2023. There is an error with the laboratory and it failed to do the test. Kimbriki requested the laboratory to test for Ammonia next round. Kimbriki will also request the laboratory to schedule quarterly and yearly groundwater monitoring rounds earlier in the relevant month where possible so that missing tests can be identified sooner and can be re-tested within the same month.					



Monthly Summary of EPA Monitoring Data - No Limit **KIMBRIKI**



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Date Published	14 April 2023						
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EPA Licence Hyperlink	https://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=211659&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	2	397	401	401	405
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	300.0	397.4	397.0	431.0
Explanatory Notes	(Note 1) m ³ /h (cubic metres per hour)						



Quarterly + Yearly Summary of EPA Monitoring Data



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Monitoring Period	December 2022 - March 2023 (Quarterly) + March 2022 - March 2023 (Yearly). Surface water sampled 24 March 2023. Groundwater sampled 24 March 2023.
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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>
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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	3
Conductivity	µS/cm (Note 3)	Quarterly	1	36.8
Dissolved Oxygen	mg/L (Note 1)	Quarterly	1	9.3
Faecal Coliforms	org/100 mL (Note 4)	Quarterly	1	~940
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	0.02
pH	pH	Quarterly	1	7.57
Potassium	mg/L (Note 1)	Quarterly	1	9.0
Redox potential	mV (Note 5)	Quarterly	1	134.0
Total dissolved solids	mg/L (Note 1)	Quarterly	1	238
Total organic carbon	mg/L (Note 1)	Quarterly	1	11.3

Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge (Note 3) µS/cm (microsiemens per centimetre) (Note 4) org/100 mL (colony forming units per 100 millilitres) (Note 5) mV (millivolts)
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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	2
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	6
Conductivity	µS/cm (Note 3)	Quarterly	1	38.6
Dissolved Oxygen	mg/L (Note 1)	Quarterly	1	8.4
Faecal Coliforms	org/100 mL (Note 4)	Quarterly	1	240
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	0.69
pH	pH	Quarterly	1	7.65
Potassium	mg/L (Note 1)	Quarterly	1	11.4
Redox potential	mV (Note 5)	Quarterly	1	195.0
Total dissolved solids	mg/L (Note 1)	Quarterly	1	234
Total organic carbon	mg/L (Note 1)	Quarterly	1	11.7
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)			



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	<5
Aluminium	mg/L (Note 1)	yearly	1	0.024
Arsenic	mg/L (Note 1)	yearly	1	0.0054
Barium	mg/L (Note 1)	yearly	1	0.836
Benzene	mg/L (Note 1)	yearly	1	<2
Cadmium	mg/L (Note 1)	yearly	1	<0.0001
Calcium	mg/L (Note 1)	yearly	1	140
Chloride	mg/L (Note 1)	yearly	1	400
Chromium (hexavalent)	mg/L (Note 1)	yearly	1	<0.005
Chromium (total)	mg/L (Note 1)	yearly	1	0.0215
Cobalt	mg/L (Note 1)	yearly	1	0.0047
Conductivity	µS/cm (Note 2)	yearly	1	4791
Copper	mg/L (Note 1)	yearly	1	<0.0005
Ethylbenzene	mg/L (Note 1)	yearly	1	<2
Fluoride	mg/L (Note 1)	yearly	1	0.2
Lead	mg/L (Note 1)	yearly	1	0.0001
Magnesium	mg/L (Note 1)	yearly	1	54.8
Manganese	mg/L (Note 1)	yearly	1	0.172
Mercury	mg/L (Note 1)	yearly	1	<0.0003
Nitrate + Nitrite (oxidised nitrogen)	mg/L (Note 1)	yearly	1	0.01
Nitrogen (Ammonia)	mg/L (Note 1)	yearly	Refer to non-compliances table	
Organochlorine pesticides	mg/L (Note 1)	yearly	1	<0.0001
Organophosphate pesticides	mg/L (Note 1)	yearly	1	<0.0025
pH	pH units	yearly	1	6.9
Phosphorus (total)	mg/L (Note 1)	yearly	1	0.34
Polycyclic aromatic	mg/L (Note 1)	yearly	1	<0.001
Potassium	mg/L (Note 1)	yearly	1	160
Sodium	mg/L (Note 1)	yearly	1	319
Standing Water Level	metres	yearly	1	In situ
Standing Water Level (m AHD)	metres	yearly	1	In situ



Quarterly + Yearly Summary of EPA Monitoring Data



Sulphate	mg/L (Note 1)	yearly	1	0.56
Toluene	mg/L (Note 1)	yearly	1	<1
Total Dissolved Solids	mg/L (Note 1)	yearly	1	2080
Total Organic Carbon - TOC	mg/L (Note 1)	yearly	1	134.9
Total Petroleum Hydrocarbons	mg/L (Note 1)	yearly	1	<0.2
Total Phenolics	mg/L (Note 1)	yearly	1	<0.05
Total Suspended	mg/L (Note 1)	yearly	1	49
Xylene	mg/L (Note 1)	yearly	1	<2
Zinc	mg/L (Note 1)	yearly	1	0.002
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 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	42.6
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.23
Faecal Coliforms	org/100 mL (Note 3)	Quarterly	1	300
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.04
pH	pH	Quarterly	1	7.88
Potassium	mg/L (Note 2)	Quarterly	1	9.7
Redox potential	mV (Note 4)	Quarterly	1	143.0
Total dissolved solids	mg/L (Note 2)	Quarterly	1	258
Total organic carbon	mg/L (Note 2)	Quarterly	1	7.2
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 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	42.3
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.87
Faecal Coliforms	org/100 mL (Note 3)	Quarterly	1	~680
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.04
pH	pH	Quarterly	1	7.8
Potassium	mg/L (Note 2)	Quarterly	1	9.5
Redox potential	mV (Note 4)	Quarterly	1	145.0
Total dissolved solids	mg/L (Note 2)	Quarterly	1	268
Total organic carbon	mg/L (Note 2)	Quarterly	1	7.4
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	42.6
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	9.01
Faecal Coliforms	org/100 mL (Note 3)	Quarterly	1	380
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	0.03
pH	pH	Quarterly	1	7.9
Potassium	mg/L (Note 2)	Quarterly	1	10.1
Redox potential	mV (Note 4)	Quarterly	1	144.0
Total dissolved solids	mg/L (Note 2)	Quarterly	1	273
Total organic carbon	mg/L (Note 2)	Quarterly	1	7.3
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 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	472.2
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	7.35
Faecal Coliforms	org/100 mL (Note 3)	Quarterly	1	~7200
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	314
pH	pH	Quarterly	1	7.7
Potassium	mg/L (Note 2)	Quarterly	1	11.4
Redox potential	mV (Note 4)	Quarterly	1	16.0
Total dissolved solids	mg/L (Note 2)	Quarterly	1	2300
Total organic carbon	mg/L (Note 2)	Quarterly	1	220.8
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 + 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	47
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	13.59
Faecal Coliforms	org/100 mL (Note 3)	Quarterly	1	~140
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	2.20
pH	pH	Quarterly	1	7.3
Potassium	mg/L (Note 2)	Quarterly	1	11.50
Redox potential	mV (Note 4)	Quarterly	1	49.0
Total dissolved solids	mg/L (Note 2)	Quarterly	1	298
Total organic carbon	mg/L (Note 2)	Quarterly	1	11.2
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 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.			
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	46.3
Dissolved Oxygen	mg/L (Note 2)	Quarterly	1	8.9
Faecal Coliforms	org/100 mL (Note 3)	Quarterly	1	~140
Nitrogen (ammonia)	mg/L (Note 2)	Quarterly	1	2.25
pH	pH	Quarterly	1	7.21
Potassium	mg/L (Note 2)	Quarterly	1	12.80
Redox potential	mV (Note 4)	Quarterly	1	95.00
Total dissolved solids	mg/L (Note 2)	Quarterly	1	297
Total organic carbon	mg/L (Note 2)	Quarterly	1	11.4
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 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	<5
Aluminium	mg/L (Note 1)	Yearly	1	0.064
Arsenic	mg/L (Note 1)	Yearly	1	0.0003
Barium	mg/L (Note 1)	Yearly	1	0.0964
Benzene	mg/L (Note 1)	Yearly	1	<2
Cadmium	mg/L (Note 1)	Yearly	1	<0.0001
Calcium	mg/L (Note 1)	Quarterly	1	2.17
Chloride	mg/L (Note 1)	Quarterly	1	84
Chromium	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	0.0044
Copper	mg/L (Note 1)	Yearly	1	0.0202
Ethylbenzene	mg/L (Note 1)	Yearly	1	<2
Fluoride	mg/L (Note 1)	Yearly	1	<0.1
Lead	mg/L (Note 1)	Yearly	1	0.0003
Magnesium	mg/L (Note 1)	Quarterly	1	9.13
Manganese	mg/L (Note 1)	Yearly	1	0.819
Mercury	mg/L (Note 1)	Yearly	1	<0.00001
Nitrate + Nitrite	mg/L (Note 1)	Yearly	1	<0.01
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	0.29
Organochlorine	mg/L (Note 1)	Yearly	1	<0.0001
Organophosphate pesticides	mg/L (Note 1)	Yearly	1	<0.0025
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	1.6
Sodium	mg/L (Note 1)	Quarterly	1	46.8
Standing Water Level (TOC)	metres	Quarterly	1	7.28
Standing Water Level (m AHD)	metres	NA	NA	62.3
Sulfate	mg/L (Note 1)	Quarterly	1	14
Toluene	mg/L (Note 1)	Yearly	1	<1



Quarterly + Yearly Summary of EPA Monitoring Data



Total dissolved solids	mg/L (Note 1)	Quarterly	1	231
Total organic carbon	mg/L (Note 1)	Quarterly	1	4.3
Total Petroleum Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.3
Total Phenolics	mg/L (Note 1)	Yearly	1	<0.05
Xylene	mg/L (Note 1)	Yearly	1	<2
Zinc	mg/L (Note 1)	Yearly	1	0.008
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/year	Value
Alkalinity (as calcium carbonate)	mg/L (Note 1)	Quarterly	1	<5
Aluminium	mg/L (Note 1)	Yearly	1	0.049
Arsenic	mg/L (Note 1)	Yearly	1	0.0011
Barium	mg/L (Note 1)	Yearly	1	0.30
Benzene	mg/L (Note 1)	Yearly	1	<2
Cadmium	mg/L (Note 1)	Yearly	1	<0.0001
Calcium	mg/L (Note 1)	Quarterly	1	38.6
Chloride	mg/L (Note 1)	Quarterly	1	190
Chromium (hexavalent)	mg/L (Note 1)	Yearly	1	<0.005
Chromium (total)	mg/L (Note 1)	Yearly	1	0.0024
Cobalt	mg/L (Note 1)	Yearly	1	0.0014
Copper	mg/L (Note 1)	Yearly	1	0.0038
Ethylbenzene	mg/L (Note 1)	Yearly	1	<2
Fluoride	mg/L (Note 1)	Yearly	1	<0.1
Lead	mg/L (Note 1)	Yearly	1	0.0004
Magnesium	mg/L (Note 1)	Quarterly	1	28.3
Manganese	mg/L (Note 1)	Yearly	1	0.959
Mercury	mg/L (Note 1)	Yearly	1	<0.00001
Nitrate + Nitrite	mg/L (Note 1)	Yearly	1	0.01
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	29.4
Organochlorine	mg/L (Note 1)	Yearly	1	<0.0001
Organophosphate pesticides	mg/L (Note 1)	Yearly	1	<0.0025
pH	pH units	Quarterly	1	6.3
Polycyclic Aromatic	mg/L (Note 1)	Yearly	1	<0.001
Potassium	mg/L (Note 1)	Quarterly	1	48.6
Sodium	mg/L (Note 1)	Quarterly	1	120
Standing Water Level (TOC)	metres	Quarterly	1	3.76



Quarterly + Yearly Summary of EPA Monitoring Data



Standing Water Level (m AHD)	metres	NA	NA	61.205
Sulfate	mg/L (Note 1)	Quarterly	1	0.52
Toluene	mg/L (Note 1)	Yearly	1	<1
Total dissolved solids	mg/L (Note 1)	Quarterly	1	708
Total organic carbon	mg/L (Note 1)	Quarterly	1	40.1
Total Petroleum	mg/L (Note 1)	Yearly	1	0.3
Total Phenolics	mg/L (Note 1)	Yearly	1	<0.05
Xylene	mg/L (Note 1)	Yearly	1	<2
Zinc	mg/L (Note 1)	Yearly	1	0.006
Explanatory Notes	(Note 1) mg/L (milligrams per litre)			
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/year	Value
Alkalinity (as calcium carbonate)	mg/L (Note 1)	Quarterly	1	<5
Aluminium	mg/L (Note 1)	Yearly	1	0.147
Arsenic	mg/L (Note 1)	Yearly	1	0.0004
Barium	mg/L (Note 1)	Yearly	1	0.15
Benzene	mg/L (Note 1)	Yearly	1	<2
Cadmium	mg/L (Note 1)	Yearly	1	<0.0001
Calcium	mg/L (Note 1)	Quarterly	1	1.48
Chloride	mg/L (Note 1)	Quarterly	1	41
Chromium	mg/L (Note 1)	Yearly	1	<0.005
Chromium (total)	mg/L (Note 1)	Yearly	1	0.0175
Cobalt	mg/L (Note 1)	Yearly	1	0.0015
Copper	mg/L (Note 1)	Yearly	1	0.0013
Ethylbenzene	mg/L (Note 1)	Yearly	1	<2
Fluoride	mg/L (Note 1)	Yearly	1	<0.1
Lead	mg/L (Note 1)	Yearly	1	0.0007
Magnesium	mg/L (Note 1)	Quarterly	1	4.76
Manganese	mg/L (Note 1)	Yearly	1	0.468
Mercury	mg/L (Note 1)	Yearly	1	<0.00001
Nitrate + Nitrite (oxidised Nitrogen)	mg/L (Note 1)	Yearly	1	0.01
Nitrogen (ammonia)	mg/L (Note 1)	Quarterly	1	0.03
Organochlorine pesticides	mg/L (Note 1)	Yearly	1	<0.0001
Organophosphate pesticides	mg/L (Note 1)	Yearly	1	<0.0025
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	22.2



Quarterly + Yearly Summary of EPA Monitoring Data



Standing Water Level (TOC)	metres	Quarterly	1	21.5
Standing Water Level (m AHD)	metres	NA	NA	100.16
Sulfate	mg/L (Note 1)	Quarterly	1	0.18
Toluene	mg/L (Note 1)	Yearly	1	<1
Total dissolved solids	mg/L (Note 1)	Quarterly	1	106
Total organic carbon	mg/L (Note 1)	Quarterly	1	6.7
Total Petroleum Hydrocarbons	mg/L (Note 1)	Yearly	1	<0.2
Total Phenolics	mg/L (Note 1)	Yearly	1	<0.05
Xylene	mg/L (Note 1)	Yearly	1	<2
Zinc	mg/L (Note 1)	Yearly	1	0.020
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	2
Explanatory Notes	(Note 1) mg/L (milligrams per litre) (Note 2) Special Frequency 1 - Quarterly and on the first day of discharge			