

Permit Number: YP3937SH

Operator: Mekatek Limited

Form Number: Water1 /

Facility: Amex Park

Reference Period

Result (1)

Test Method (2)

Sample Date and Times (3)

Uncertainty (4)

**Reporting of emissions to water (other than to sewer) and land for the period from 01/07/2023 to 31/07/2023**

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result (1)	Test Method (2)	Sample Date and Times (3)	Uncertainty (4)	
W1	Total suspended solids (TSS)	60 mg/l	Monthly analysis of bulk daily sample.	8mg/l	As per EN 872 and Technical Guidance Note (Monitoring) M18: Monitoring of discharges to water and sewer or other method as agreed in writing with the Regulator.	Monthly Composite	11.39%	
	Total ammonium as N	20mg/l (winter period) (5)	Spot sample	13.8 mg/l		Daily throughout month	13.9%	
		15mg/l (summer period) (6)						
	Biochemical oxygen demand (5 day)	75mg/l (winter period) (5)	Spot sample	6mg/l		As per Technical Guidance Note (Monitoring) M18: Monitoring of discharges to water and sewer or other method as agreed in writing with the Regulator.	31/07/2023	23.60%
		40 mg/l (summer period) (6)						
	Oils and grease	No visible release	Visual inspection	Non visible		Daily throughout month	N/A	
	Temperature	≤24°C	Spot readings	18.2		Daily throughout month	1 DP	
	pH	6 to 8.5	Continuous	6.75-8.40		Monthly data	15.62%	
	Flow	39l/second	Continuous	30.79l/s	1162.97m <sup>3</sup> /day		Monthly data	8%
		2500m <sup>3</sup> /day						
	Cadmium and its compounds as Cd	0.05mg	Monthly analysis of bulk daily sample	0.00002mg/l		Various EN standards available (e.g. EN ISO 11885,	Monthly Composite	14.31%
	Chromium and its compounds as Cr	0.15mg						

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result <sup>[1]</sup>	Test Method <sup>[2]</sup>	Sample Date and Times <sup>[3]</sup>	Uncertainty <sup>[4]</sup>
	Copper and its compounds as Cu	0.5mg		0.022mg/l	EN ISO 17294-2, EN ISO 15586)	Monthly Composite	8.65%
	Lead and its compounds as Pb	0.1mg		0.0004mg/l		Monthly Composite	5.50%
	Nickel and its compounds as Ni	0.5mg		0.008mg/l		Monthly Composite	9.33%
	Zinc and its compounds as Zn	1mg		0.033mg/l		Monthly Composite	7.98%
	Mercury and its compounds as Hg	5 ug/l		0.34ug/l	Various EN standards available (i.e. EN ISO 17852, EN ISO 12846)	Monthly Composite	14.82%
	Free cyanide (CN <sup>-</sup> )	0.1mg	None set	<0.008mg/l	Various EN standards available (i.e. EN ISO 14403-1 and -2)	Monthly Composite	13.83%
	Phenol index	0.3mg	None set	<0.1mg/l	EN ISO 14402	Monthly Composite	10.08%
	Total nitrogen (Total N)	25 mg/l	None set	7.3mg/l	EN 12260, EN ISO 11905-1	Monthly Composite	7.53%
	Total organic carbon (TOC)	60 mg/l	None set	18.5mg/l	EN 1484	Monthly Composite	16.34%
	Total phosphorus (Total P)	2 mg/l	None set	1.3mg/l	Various EN standards available (i.e. EN ISO 15681-1 and -2, EN ISO 6878, EN ISO 11885)	Monthly Composite	10.87

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum - maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

[5] Winter period is defined as 01 October to 31 March.

[6] summer period is defined as 01 April to 30 September

Signed  .....  
(Authorised to sign as representative of Operator)

Date 28/10/2023 .....

Permit Number: YP3937SH Operator: Mekatek Limited  
 Facility: Amex Park Form Number: Water1 /

**Reporting of emissions to water (other than to sewer) and land for the period from 01/08/2023 to 31/08/2023**

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result <sup>(1)</sup>	Test Method <sup>(2)</sup>	Sample Date and Times <sup>(3)</sup>	Uncertainty <sup>(4)</sup>
W1	Total suspended solids (TSS)	60 mg/l	Monthly analysis of bulk daily sample.	2mg/l	As per EN 872 and Technical Guidance Note (Monitoring) M18: Monitoring of discharges to water and sewer or other method as agreed in writing with the Regulator.	Monthly Composite	11.39%
	Total ammonium as N	20mg/l (winter period) <sup>(5)</sup>	Spot sample	6.3mg/l	As per Technical Guidance Note (Monitoring) M18: Monitoring of discharges to water and sewer or other method as agreed in writing with the Regulator.	Daily throughout month	13.9%
		15mg/l (summer period) <sup>(6)</sup>					
	Biochemical oxygen demand (5 day)	75mg/l (winter period) <sup>(5)</sup>	Spot sample	27mg/l	As per Technical Guidance Note (Monitoring) M18: Monitoring of discharges to water and sewer or other method as agreed in writing with the Regulator.	31/08/2023	23.60%
		40 mg/l (summer period) <sup>(6)</sup>					
	Oils and grease	No visible release	Visual inspection	Non visible		Daily throughout month	N/A
	Temperature	≤24°C	Spot readings	19.8		Daily throughout month	1 DP
	pH	6 to 8.5	Continuous	6.48-8.4		Monthly data	15.62%
	Flow	39l/second	Continuous	28.17l/s 1553.843m <sup>3</sup> /day	Various EN standards available (e.g. EN ISO 11885)	Monthly data	8%
		2500m <sup>3</sup> /day					
	Cadmium and its compounds as Cd	0.05mg	Monthly analysis of bulk daily sample	<0.00002mg/l	Monthly Composite	Monthly Composite	14.31%
	Chromium and its compounds as Cr	0.15mg					

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result <sup>[1]</sup>		Test Method <sup>[2]</sup>	Sample Date and Times <sup>[3]</sup>	Uncertainty <sup>[4]</sup>
	Copper and its compounds as Cu	0.5mg		0.012mg/l		EN ISO 17294-2, EN ISO 15586)	Monthly Composite	8.65%
	Lead and its compounds as Pb	0.1mg		<0.0003mg/l			Monthly Composite	5.50%
	Nickel and its compounds as Ni	0.5mg		0.017mg/l			Monthly Composite	9.33%
	Zinc and its compounds as Zn	1mg		0.054mg/l			Monthly Composite	7.98%
	Mercury and its compounds as Hg	5 ug/l		0.89ug/l		Various EN standards available (i.e. EN ISO 17852, EN ISO 12846)	Monthly Composite	14.82%
	Free cyanide (CN <sup>-</sup> )	0.1mg	None set	<0.008mg/l		Various EN standards available (i.e. EN ISO 14403-1 and -2)	Monthly Composite	13.83%
	Phenol index	0.3mg	None set	<0.1mg/l		EN ISO 14402	Monthly Composite	10.08%
	Total nitrogen (Total N)	25 mg/l	None set	9.3mg/l		EN 12260, EN ISO 11905-1	Monthly Composite	7.53%
	Total organic carbon (TOC)	60 mg/l	None set	182mg/l		EN 1484	Monthly Composite	16.34%
	Total phosphorus (Total P)	2 mg/l	None set	1.1mg/l		Various EN standards available (i.e. EN ISO 15681-1 and -2, EN ISO 6878, EN ISO 11885)	Monthly Composite	10.87

- [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum - maximum' measured values.
- [2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- [4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.
- [5] Winter period is defined as 01 October to 31 March.

[6] summer period is defined as 01 April to 30 September



Signed .....  
(Authorised to sign as representative of Operator)

Date 28/01/2023.....

Permit Number: YP3937SH

Operator: Mekatek Limited

Facility: Amex Park

Form Number: Water1

**Reporting of emissions to water (other than to sewer) and land for the period from 01/09/2023 to 30/09/2023**

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result <sup>[1]</sup>	Test Method <sup>[2]</sup>	Sample Date and Times <sup>[3]</sup>	Uncertainty <sup>[4]</sup>
W1	Total suspended solids (TSS)	60 mg/l	Monthly analysis of bulk daily sample.	12mg/l	As per EN 872 and Technical Guidance Note (Monitoring) M18: Monitoring of discharges to water and sewer or other method as agreed in writing with the Regulator.	Monthly Composite	11.39%
		20mg/l (winter period) <sup>[5]</sup> 15mg/l (summer period) <sup>[6]</sup>	Spot sample	12.6mg/l			
	Biochemical oxygen demand (5 day)	75mg/l (winter period) <sup>[5]</sup> 40 mg/l (summer period) <sup>[6]</sup>	Spot sample	9mg/l	As per Technical Guidance Note (Monitoring) M18: Monitoring of discharges to water and sewer or other method as agreed in writing with the Regulator.	29/09/2023	23.60%
		No visible release	Visual inspection	Non visible			
	Temperature	≤24°C	Spot readings	20.2		Daily throughout month	N/A
	pH	6 to 8.5	Continuous	7.03-8.40		Daily throughout month	
	Flow	39l/second	Continuous	24.95l/s 1213.17m <sup>3</sup> /day		Monthly data	15.62%
		2500m <sup>3</sup> /day				Monthly data	8%
	Cadmium and its compounds as Cd	0.05mg	Monthly analysis of bulk daily sample	0.00008mg/l		Monthly Composite	14.31%
		0.15mg				Monthly Composite	11.89%

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result <sup>[1]</sup>	Test Method <sup>[2]</sup>	Sample Date and Times <sup>[3]</sup>	Uncertainty <sup>[4]</sup>
	Copper and its compounds as Cu	0.5mg		0.046mg/l	EN ISO 17294-2, EN ISO 15586)	Monthly Composite	8.65%
	Lead and its compounds as Pb	0.1mg		0.00083mg/l		Monthly Composite	5.50%
	Nickel and its compounds as Ni	0.5mg		0.019mg/l		Monthly Composite	9.33%
	Zinc and its compounds as Zn	1mg		0.093mg/l		Monthly Composite	7.98%
	Mercury and its compounds as Hg	5 ug/l		0.371ug/l		Monthly Composite	14.82%
	Free cyanide (CN-)	0.1mg	None set	0.013mg/l	Various EN standards available (i.e. EN ISO 17852, EN ISO 12846)	Monthly Composite	13.83%
	Phenol index	0.3mg	None set	<0.1mg/l	Various EN standards available (i.e. EN ISO 14403-1 and -2)	Monthly Composite	10.08%
	Total nitrogen (Total N)	25 mg/l	None set	15.8mg/l	EN ISO 14402	Monthly Composite	7.53%
	Total organic carbon (TOC)	60 mg/l	None set	21.6mg/l	EN 12260, EN ISO 11905-1	Monthly Composite	16.34%
	Total phosphorus (Total P)	2 mg/l	None set	1.6mg/l	EN 1484	Monthly Composite	10.87
					Various EN standards available (i.e. EN ISO 15681-1 and -2, EN ISO 6878, EN ISO 11885)	Monthly Composite	

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum - maximum' measured values.


[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

[5] Winter period is defined as 01 October to 31 March.

[6] summer period is defined as 01 April to 30 September

Signed  .....  
(Authorised to sign as representative of Operator)

Date 28/10/2023.....