

Permit Number: EPR/PP3993VS

Operator: Atlantic Recycling Limited

Facility: Atlantic Recycling

Form Number: Surfacewater1

**Reporting of surface water monitoring for quarterly monitoring in September 2019**

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result <sup>(1)</sup>	Unit	Test Method <sup>(2)</sup>	Sample Date and Time <sup>(3)</sup>	Uncertainty <sup>(4)</sup>
OF	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Monthly	0.741	mg/l	TM099	25/09/2019	Lab Precision: 1.78%, Bias: 0.97%, Expanded Uncertainty: 4.53%, Sampling Immeasurable
OF	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Monthly	3.28	mg/l	TM045	25/09/2019	Lab Precision: 5.72%, Bias: 5.47%, Expanded Uncertainty: 16.92%, Sampling Immeasurable
OF	Cadmium (tot.unfilt)	>0.005 mg/l	Monthly	<0.5	ug/l	TM152	25/09/2019	Lab Precision: 2.5%, Bias: 2.93%, Expanded Uncertainty: 7.92%, Sampling Immeasurable
OF	Calcium (Tot. Unfilt.)	>300 mg/l	Monthly	95.4	mg/l	TM152	25/09/2019	Lab Precision: 3.54%, Bias: 4.78%, Expanded Uncertainty: 11.86%, Sampling Immeasurable
OF	Chloride	>300 mg/l	Monthly	57.7	mg/l	TM184	25/09/2019	Lab Precision: 2.62%, Bias: 5.74%, Expanded Uncertainty: 10.97%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result <sup>(1)</sup>	Unit	Test Method <sup>(2)</sup>	Sample Date and Time <sup>(3)</sup>	Uncertainty <sup>(4)</sup>
OF	Conductivity @ 20 deg.C	>2000 µS/cm	Monthly	0.702	mS/cm	TM120	25/09/2019	Lab Precision: 0.66%, Bias: 3.33%, Expanded Uncertainty: 4.66%, Sampling Immeasurable
OF	GRO >C5-C12	>2 mg/l	Monthly	<50	ug/l	TM245	25/09/2019	Lab Precision: 11.29%, Bias: 2.36%, Expanded Uncertainty: 24.93%, Sampling Immeasurable
OF	Lead (diss.filt)	>0.25 mg/l	Monthly	0.219	ug/l	TM152	25/09/2019	Lab Precision: 3.32%, Bias: 3.73%, Expanded Uncertainty: 10.37%, Sampling Immeasurable
OF	Nickel (diss.filt)	>0.1 mg/l	Monthly	1.72	ug/l	TM152	25/09/2019	Lab Precision: 2.76%, Bias: 3.15%, Expanded Uncertainty: 8.67%, Sampling Immeasurable
OF	Nitrate as N	>1 mg/l	Monthly	0.0969	mg/l	TM184	25/09/2019	Lab Precision: N/A, Sampling Immeasurable
OF	Nitrite as N	>1 mg/l	Monthly	0.0365	mg/l	TM184	25/09/2019	Lab Precision: 1.19%, Bias: 0.01%, Expanded Uncertainty: 2.4%, Sampling Immeasurable
OF	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Monthly	2.47	mg/l	TM187	25/09/2019	Lab Precision: N/A, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result <sup>(1)</sup>	Unit	Test Method <sup>(2)</sup>	Sample Date and Time <sup>(3)</sup>	Uncertainty <sup>(4)</sup>
OF	pH	6.8 – 8.5	Monthly	7.67	pH Units	TM256	25/09/2019	Lab Precision: 0.03%, Bias: 0.08%, Expanded Uncertainty: 0.15%, Sampling Immeasurable
OF	Phosphate (Ortho as PO4)	>1 mg/l	Monthly	0.25	mg/l	TM184	25/09/2019	Lab Precision: 1.24%, Bias: 5.03%, Expanded Uncertainty: 7.51%, Sampling Immeasurable
OF	Sulphate	>300 mg/l	Monthly	81.9	mg/l	TM184	25/09/2019	Lab Precision: 2.73%, Bias: 2.05%, Expanded Uncertainty: 7.51%, Sampling Immeasurable
OF	Suspended solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Monthly	<2	mg/l	TM022	25/09/2019	Lab Precision: 0.98%, Bias: -0.68%, Expanded Uncertainty: 2.64%, Sampling Immeasurable
OF	Total Aliphatics >C12-C35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	25/09/2019	Lab Precision: 8.41%, Bias: 0.74%, Expanded Uncertainty: 17.55%, Sampling Immeasurable
OF	Total Aromatics >EC12-EC35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	25/09/2019	Lab Precision: 9.2%, Bias: -12.58%, Expanded Uncertainty: 30.98%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result <sup>(1)</sup>	Unit	Test Method <sup>(2)</sup>	Sample Date and Time <sup>(3)</sup>	Uncertainty <sup>(4)</sup>
OF	Total Oxidised Nitrogen as N	>2 mg/l	Monthly	0.134	mg/l	TM184	25/09/2019	Lab Precision: 2.93%, Bias: 4.42%, Expanded Uncertainty: 10.27%, Sampling Immeasurable
OF	Zinc (tot.unfilt)	>1 mg/l	Monthly	14.6	ug/l	TM152	25/09/2019	Lab Precision: 3.24%, Bias: 4.17%, Expanded Uncertainty: 10.66%, Sampling Immeasurable
SW09	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Monthly	0.372	mg/l	TM099	25/09/2019	Lab Precision: 1.78%, Bias: 0.97%, Expanded Uncertainty: 4.53%, Sampling Immeasurable
SW09	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Monthly	2.46	mg/l	TM045	25/09/2019	Lab Precision: 5.72%, Bias: 5.47%, Expanded Uncertainty: 16.92%, Sampling Immeasurable
SW09	Cadmium (tot.unfilt)	>0.005 mg/l	Monthly	<0.5	ug/l	TM152	25/09/2019	Lab Precision: 2.5%, Bias: 2.93%, Expanded Uncertainty: 7.92%, Sampling Immeasurable
SW09	Calcium (Tot. Unfilt.)	>300 mg/l	Monthly	78.9	mg/l	TM152	25/09/2019	Lab Precision: 3.54%, Bias: 4.78%, Expanded Uncertainty: 11.86%, Sampling Immeasurable
SW09	Chloride	>300 mg/l	Monthly	43	mg/l	TM184	25/09/2019	Lab Precision: 2.62%, Bias: 5.74%, Expanded Uncertainty: 10.97%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result <sup>(1)</sup>	Unit	Test Method <sup>(2)</sup>	Sample Date and Time <sup>(3)</sup>	Uncertainty <sup>(4)</sup>
SW09	Conductivity @ 20 deg.C	>2000 µS/cm	Monthly	0.624	mS/cm	TM120	25/09/2019	Lab Precision: 0.66%, Bias: 3.33%, Expanded Uncertainty: 4.66%, Sampling Immeasurable
SW09	GRO >C5-C12	>2 mg/l	Monthly	<50	ug/l	TM245	25/09/2019	Lab Precision: 11.29%, Bias: 2.36%, Expanded Uncertainty: 24.93%, Sampling Immeasurable
SW09	Lead (diss.filt)	>0.25 mg/l	Monthly	<0.2	ug/l	TM152	25/09/2019	Lab Precision: 3.32%, Bias: 3.73%, Expanded Uncertainty: 10.37%, Sampling Immeasurable
SW09	Nickel (diss.filt)	>0.1 mg/l	Monthly	0.652	ug/l	TM152	25/09/2019	Lab Precision: 2.76%, Bias: 3.15%, Expanded Uncertainty: 8.67%, Sampling Immeasurable
SW09	Nitrate as N	>1 mg/l	Monthly	<0.0677	mg/l	TM184	25/09/2019	Lab Precision: N/A, Sampling Immeasurable
SW09	Nitrite as N	>1 mg/l	Monthly	<0.0152	mg/l	TM184	25/09/2019	Lab Precision: 1.19%, Bias: 0.01%, Expanded Uncertainty: 2.4%, Sampling Immeasurable
SW09	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Monthly	1	mg/l	TM187	25/09/2019	Lab Precision: N/A, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result <sup>(1)</sup>	Unit	Test Method <sup>(2)</sup>	Sample Date and Time <sup>(3)</sup>	Uncertainty <sup>(4)</sup>
SW09	pH	6.8 – 8.5	Monthly	7.47	pH Units	TM256	25/09/2019	Lab Precision: 0.03%, Bias: 0.08%, Expanded Uncertainty: 0.15%, Sampling Immeasurable
SW09	Phosphate (Ortho as PO4)	>1 mg/l	Monthly	0.427	mg/l	TM184	25/09/2019	Lab Precision: 1.24%, Bias: 5.03%, Expanded Uncertainty: 7.51%, Sampling Immeasurable
SW09	Sulphate	>300 mg/l	Monthly	45.8	mg/l	TM184	25/09/2019	Lab Precision: 2.73%, Bias: 2.05%, Expanded Uncertainty: 7.51%, Sampling Immeasurable
SW09	Suspended solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Monthly	3	mg/l	TM022	25/09/2019	Lab Precision: 0.98%, Bias: -0.68%, Expanded Uncertainty: 2.64%, Sampling Immeasurable
SW09	Total Aliphatics >C12-C35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	25/09/2019	Lab Precision: 8.41%, Bias: 0.74%, Expanded Uncertainty: 17.55%, Sampling Immeasurable
SW09	Total Aromatics >EC12-EC35 (aq)	>2 mg/l	Monthly	<10	ug/l	TM174	25/09/2019	Lab Precision: 9.2%, Bias: -12.58%, Expanded Uncertainty: 30.98%, Sampling Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result <sup>(1)</sup>	Unit	Test Method <sup>(2)</sup>	Sample Date and Time <sup>(3)</sup>	Uncertainty <sup>(4)</sup>
SW09	Total Oxidised Nitrogen as N	>2 mg/l	Monthly	<0.1	mg/l	TM184	25/09/2019	Lab Precision: 2.93%, Bias: 4.42%, Expanded Uncertainty: 10.27%, Sampling Immeasurable
SW09	Zinc (tot.unfilt)	>1 mg/l	Monthly	6.57	ug/l	TM152	25/09/2019	Lab Precision: 3.24%, Bias: 4.17%, Expanded Uncertainty: 10.66%, Sampling Immeasurable

- [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 the Environment Agency 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.



Signed.....

Date: October 2019

(Authorised to sign as representative of Operator)

Ahlim Hashm on behalf of Atlantic Recycling  
Permit Number: EPR/PP3993VS