

Permit Number: EPR/PP3993VS

Operator: Atlantic Recycling

Facility: Atlantic Recycling

Form Number: Surfacewater1

Reporting of surface water monitoring for monthly monitoring in March 2017

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
Outfall	Suspended Solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Monthly	96.9 mg/l	TM022	20/03/2017 09:00	Lab: Precision 1.1%, Bias -1.5%, Expanded Uncertainty 3.7%. Sampling: Immeasurable
Outfall	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Monthly	4.46 mg/l	TM045	20/03/2017 09:00	Lab: Precision 11.4%, Bias -5.0%, Expanded Uncertainty 27.8%. Sampling: Immeasurable
Outfall	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Monthly	1.08 mg/l	TM099	20/03/2017 09:00	Lab: Precision 1.8%, Bias 3.0%, Expanded Uncertainty 6.5%. Sampling: Immeasurable
Outfall	Conductivity	>2000 µS/cm	Monthly	0.69 mS/cm	TM120	20/03/2017 09:00	Lab: Precision 1.2%, Bias 3.0%, Expanded Uncertainty 5.4%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
Outfall	Lead (diss.filt)	>0.25 mg/l	Monthly	<0.1 µg/l	TM152	20/03/2017 09:00	Lab: Precision 3.8%, Bias 1.4%, Expanded Uncertainty 9.0%. Sampling: Immeasurable
Outfall	Nickel (diss.filt)	>0.1 mg/l	Monthly	2.99 µg/l	TM152	20/03/2017 09:00	Lab: Precision 4.2%, Bias 2.8%, Expanded Uncertainty 11.1%. 1Sampling: Immeasurable
Outfall	EPH Range >C10-C40 (aq)	>2 mg/l	Monthly	443 µg/l	TM172	20/03/2017 09:00	Lab: Precision 6.6%, Bias -10.4%, Expanded Uncertainty 23.7%. Sampling: Immeasurable
Outfall	EPH Range >C10-C20 (aq)	>2 mg/l	Monthly	102 µg/l	TM172	20/03/2017 09:00	Lab: Precision 6.6%, Bias -10.4%, Expanded Uncertainty 23.7%. Sampling: Immeasurable
Outfall	EPH Range >C20-C30 (aq)	>2 mg/l	Monthly	211 µg/l	TM172	20/03/2017 09:00	Lab: Precision 6.6%, Bias -10.4%, Expanded Uncertainty 23.7%. Sampling: Immeasurable
Outfall	EPH Range >C30-C40 (aq)	>2 mg/l	Monthly	129 µg/l	TM172	20/03/2017 09:00	Lab: Precision 6.6%, Bias -10.4%, Expanded Uncertainty 23.7%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
Outfall	Sulphate	>300 mg/l	Monthly	204 mg/l	TM184	20/03/2017 09:00	Lab: Precision 2.8%, Bias 2.4%, Expanded Uncertainty 8.0%. Sampling: Immeasurable
Outfall	Chloride	>300 mg/l	Monthly	52 mg/l	TM184	20/03/2017 09:00	Lab: Precision 2.6%, Bias 4.9%, Expanded Uncertainty 10.1%. Sampling: Immeasurable
Outfall	Nitrite as N	>1 mg/l	Monthly	0.113 mg/l	TM184	20/03/2017 09:00	Lab: Precision 2.1%, Bias 0.4%, Expanded Uncertainty 4.5%. Sampling: Immeasurable
Outfall	Phosphate (ortho) as PO ₄	>1 mg/l	Monthly	<0.05 mg/l	TM184	20/03/2017 09:00	Lab: Precision 1.9%, Bias 2.4%, Expanded Uncertainty 6.2%. Sampling: Immeasurable
Outfall	Nitrate as N	>1 mg/l	Monthly	0.375 mg/l	TM184	20/03/2017 09:00	Lab: Unknown. Sampling: Immeasurable
Outfall	Total Oxidised Nitrogen as N	>2 mg/l	Monthly	0.488 mg/l	TM184	20/03/2017 09:00	Lab: Precision 2.5%, Bias 4.7%, Expanded Uncertainty 9.6%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
Outfall	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Monthly	8.83 mg/l	TM187	20/03/2017 09:00	Lab: Unknown. Sampling: Immeasurable
Outfall	Cadmium (tot.unfilt)	>0.005 mg/l	Monthly	<0.5 µg/l	TM191	20/03/2017 09:00	Lab: Precision 5.5%, Bias -5.9%, Expanded Uncertainty 16.9%. Sampling: Immeasurable
Outfall	Zinc (tot.unfilt)	>1 mg/l	Monthly	67.7 µg/l	TM191	20/03/2017 09:00	Lab: Precision 6.3%, Bias -5.8%, Expanded Uncertainty 18.3%. Sampling: Immeasurable
Outfall	Calcium (tot.unfilt)	>300 mg/l	Monthly	106 mg/l	TM228	20/03/2017 09:00	Lab: Precision 5.2%, Bias -3.8%, Expanded Uncertainty 14.2%. Sampling: Immeasurable
Outfall	pH	6.8 ñ 8.5	Monthly	7.99 pH Units	TM256	20/03/2017 09:00	Lab: Precision 0.4%, Bias 1.1%, Expanded Uncertainty 1.8%. Sampling: Immeasurable
Outfall	GRO >C5-C12	>2 mg/l	Monthly	<50 µg/l	TM245	20/03/2017 09:00	Lab: Precision 9.5%, Bias -5.1%, Expanded Uncertainty 24.0%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
Outfall	GRO >C7-C8	>2 mg/l	Monthly	<10 µg/l	TM245	20/03/2017 09:00	Lab: Precision 9.5%, Bias -5.1%, Expanded Uncertainty 24.0%. Sampling: Immeasurable
Outfall	GRO >C5-C6	>2 mg/l	Monthly	<10 µg/l	TM245	20/03/2017 09:00	Lab: Precision 9.5%, Bias -5.1%, Expanded Uncertainty 24.0%. Sampling: Immeasurable
Outfall	GRO >C6-C7	>2 mg/l	Monthly	<10 µg/l	TM245	20/03/2017 09:00	Lab: Precision 9.5%, Bias -5.1%, Expanded Uncertainty 24.0%. Sampling: Immeasurable
Outfall	GRO >C8-C10	>2 mg/l	Monthly	<10 µg/l	TM245	20/03/2017 09:00	Lab: Precision 9.5%, Bias -5.1%, Expanded Uncertainty 24.0%. Sampling: Immeasurable
Outfall	GRO >C10-C12	>2 mg/l	Monthly	<10 µg/l	TM245	20/03/2017 09:00	Lab: Precision 9.5%, Bias -5.1%, Expanded Uncertainty 24.0%. Sampling: Immeasurable
Outfall	GRO >C5-C10	>2 mg/l	Monthly	<10 µg/l	TM245	20/03/2017 09:00	Lab: Precision 9.5%, Bias -5.1%, Expanded Uncertainty 24.0%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW 9	Suspended Solids, Total	>250 mg/l (1 occasion) >100 mg/l (3 consecutive occasions) >60 mg/l (4 consecutive occasions)	Monthly	54.4 mg/l	TM022	20/03/2017 09:15	Lab: Precision 1.1%, Bias -1.5%, Expanded Uncertainty 3.7%. Sampling: Immeasurable
SW 9	BOD, unfiltered	>18 mg/l (1 occasion) >10 mg/l (3 consecutive occasions)	Monthly	9.21 mg/l	TM045	20/03/2017 09:15	Lab: Precision 11.4%, Bias -5.0%, Expanded Uncertainty 27.8%. Sampling: Immeasurable
SW 9	Ammoniacal Nitrogen as N	>1 mg/l (1 occasion) >0.5 mg/l (4 consecutive occasions)	Monthly	1.02 mg/l	TM099	20/03/2017 09:15	Lab: Precision 1.8%, Bias 3.0%, Expanded Uncertainty 6.5%. Sampling: Immeasurable
SW 9	Conductivity	>2000 µS/cm	Monthly	1.02 mS/cm	TM120	20/03/2017 09:15	Lab: Precision 1.2%, Bias 3.0%, Expanded Uncertainty 5.4%. Sampling: Immeasurable
SW 9	Lead (diss.filt)	>0.25 mg/l	Monthly	0.125 µg/l	TM152	20/03/2017 09:15	Lab: Precision 3.8%, Bias 1.4%, Expanded Uncertainty 9.0%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW 9	Nickel (diss.filt)	>0.1 mg/l	Monthly	3.78 µg/l	TM152	20/03/2017 09:15	Lab: Precision 4.2%, Bias 2.8%, Expanded Uncertainty 11.1%. 1Sampling: Immeasurable
SW 9	EPH Range >C10-C40 (aq)	>2 mg/l	Monthly	269 µg/l	TM172	20/03/2017 09:15	Lab: Precision 6.6%, Bias -10.4%, Expanded Uncertainty 23.7%. Sampling: Immeasurable
SW 9	EPH Range >C10-C20 (aq)	>2 mg/l	Monthly	75.7 µg/l	TM172	20/03/2017 09:15	Lab: Precision 6.6%, Bias -10.4%, Expanded Uncertainty 23.7%. Sampling: Immeasurable
SW 9	EPH Range >C20-C30 (aq)	>2 mg/l	Monthly	92.2 µg/l	TM172	20/03/2017 09:15	Lab: Precision 6.6%, Bias -10.4%, Expanded Uncertainty 23.7%. Sampling: Immeasurable
SW 9	EPH Range >C30-C40 (aq)	>2 mg/l	Monthly	101 µg/l	TM172	20/03/2017 09:15	Lab: Precision 6.6%, Bias -10.4%, Expanded Uncertainty 23.7%. Sampling: Immeasurable
SW 9	Sulphate	>300 mg/l	Monthly	271 mg/l	TM184	20/03/2017 09:15	Lab: Precision 2.8%, Bias 2.4%, Expanded Uncertainty 8.0%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW 9	Chloride	>300 mg/l	Monthly	89.8 mg/l	TM184	20/03/2017 09:15	Lab: Precision 2.6%, Bias 4.9%, Expanded Uncertainty 10.1%. Sampling: Immeasurable
SW 9	Nitrite as N	>1 mg/l	Monthly	0.0758 mg/l	TM184	20/03/2017 09:15	Lab: Precision 2.1%, Bias 0.4%, Expanded Uncertainty 4.5%. Sampling: Immeasurable
SW 9	Phosphate (ortho) as PO ₄	>1 mg/l	Monthly	<0.05 mg/l	TM184	20/03/2017 09:15	Lab: Precision 1.9%, Bias 2.4%, Expanded Uncertainty 6.2%. Sampling: Immeasurable
SW 9	Nitrate as N	>1 mg/l	Monthly	0.659 mg/l	TM184	20/03/2017 09:15	Lab: Unknown. Sampling: Immeasurable
SW 9	Total Oxidised Nitrogen as N	>2 mg/l	Monthly	0.735 mg/l	TM184	20/03/2017 09:15	Lab: Precision 2.5%, Bias 4.7%, Expanded Uncertainty 9.6%. Sampling: Immeasurable
SW 9	Oxygen, dissolved	<2 mg/l (1 occasion) <5 mg/l (3 consecutive occasions)	Monthly	10.8 mg/l	TM187	20/03/2017 09:15	Lab: Unknown. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW 9	Cadmium (tot.unfilt)	>0.005 mg/l	Monthly	<0.5 µg/l	TM191	20/03/2017 09:15	Lab: Precision 5.5%, Bias -5.9%, Expanded Uncertainty 16.9%. Sampling: Immeasurable
SW 9	Zinc (tot.unfilt)	>1 mg/l	Monthly	42 µg/l	TM191	20/03/2017 09:15	Lab: Precision 6.3%, Bias -5.8%, Expanded Uncertainty 18.3%. Sampling: Immeasurable
SW 9	Calcium (tot.unfilt)	>300 mg/l	Monthly	134 mg/l	TM228	20/03/2017 09:15	Lab: Precision 5.2%, Bias -3.8%, Expanded Uncertainty 14.2%. Sampling: Immeasurable
SW 9	pH	6.8 ñ 8.5	Monthly	7.84 pH Units	TM256	20/03/2017 09:15	Lab: Precision 0.4%, Bias 1.1%, Expanded Uncertainty 1.8%. Sampling: Immeasurable
SW 9	GRO>C5-12	>2 mg/l	Monthly	<50 µg/l	TM245	20/03/2017 09:15	Lab: Precision 9.5%, Bias -5.1%, Expanded Uncertainty 24.0%. Sampling: Immeasurable
SW 9	GRO >C7-C8	>2 mg/l	Monthly	<10 µg/l	TM245	20/03/2017 09:15	Lab: Precision 9.5%, Bias -5.1%, Expanded Uncertainty 24.0%. Sampling: Immeasurable

Monitoring Point	Substance / Parameter	Trigger level	Reference Period	Result ⁽¹⁾	Test Method ⁽²⁾	Sample Date and Times ⁽³⁾	Uncertainty ⁽⁴⁾
SW 9	GRO >C5-C6	>2 mg/l	Monthly	<10 µg/l	TM245	20/03/2017 09:15	Lab: Precision 9.5%, Bias -5.1%, Expanded Uncertainty 24.0%. Sampling: Immeasurable
SW 9	GRO >C6-C7	>2 mg/l	Monthly	<10 µg/l	TM245	20/03/2017 09:15	Lab: Precision 9.5%, Bias -5.1%, Expanded Uncertainty 24.0%. Sampling: Immeasurable
SW 9	GRO >C8-C10	>2 mg/l	Monthly	<10 µg/l	TM245	20/03/2017 09:15	Lab: Precision 9.5%, Bias -5.1%, Expanded Uncertainty 24.0%. Sampling: Immeasurable
SW 9	GRO >C10-C12	>2 mg/l	Monthly	<10 µg/l	TM245	20/03/2017 09:15	Lab: Precision 9.5%, Bias -5.1%, Expanded Uncertainty 24.0%. Sampling: Immeasurable
SW 9	GRO >C5-C10	>2 mg/l	Monthly	<10 µg/l	TM245	20/03/2017 09:15	Lab: Precision 9.5%, Bias -5.1%, Expanded Uncertainty 24.0%. 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: April 2017

(Authorised to sign as representative of Operator)

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