

Environment and Transportation Department,  
Block 2, Floor 6,  
Civic Offices,  
Dublin 8.

25 April 2018.

**To Each Member of the  
Environment Strategic Policy Committee**

**Dublin Waste to Energy (DWtE) Project**

**1 Construction Status**

- Construction works for the Facility are now substantially complete, with the construction contractor continuing to work towards achieving the Facility's completion in the coming months.

**2 Environmental Impact**

The continuous emissions monitoring data for the facility's commissioning and testing on both boiler line 1 & 2 between 02/04/2018 and 08/04/2018 are set out below:

**Boiler 1**

Measured Emission	Total Dust	TOC	HCL	SO2	CO	NOx
Limit	10	10	10	50	50	200
Unit	mg/Nm3	mg/Nm3	mg/Nm3	mg/Nm3	mg/Nm3	mg/Nm3
2 April, 2018	0.37	0.16	0.04	2.03	4.68	120.76
3 April, 2018	0.39	0.17	0.06	0.29	5.01	112.37
4 April, 2018	0.36	0.27	0.06	0.06	13.76	101.49
5 April, 2018	0.37	0.17	0.04	0.03	4.77	119.24
6 April, 2018	0.28	0.17	0.04	0.62	4.91	123.63
7 April, 2018	0.27	0.15	0.03	0.30	4.31	117.95
8 April, 2018	0.31	0.15	0.04	0.32	4.37	96.47

### Boiler 2

Measured Emission	Total Dust	TOC	HCL	SO2	CO	NOx
Limit	10	10	10	50	50	200
Unit	mg/Nm3	mg/Nm3	mg/Nm3	mg/Nm3	mg/Nm3	mg/Nm3
2 April, 2018	0.35	0.23	0.06	0.87	2.48	117.35
3 April, 2018	0.38	0.23	0.06	0.17	3.89	115.70
4 April, 2018	0.34	0.48	0.08	0.08	16.83	116.03
5 April, 2018	0.31	0.25	0.05	0.88	7.16	107.13
6 April, 2018	0.37	0.31	0.09	2.98	9.00	106.02
7 April, 2018	0.44	0.23	0.06	0.53	3.28	117.24
8 April, 2018	0.45	0.26	0.05	0.01	4.38	95.20

It is noted that the tables shows the daily averages from the continuous emissions monitoring system for total dust, gaseous and vaporous organic substances expressed as Total Organic Carbon, Hydrogen Chloride, Carbon Monoxide, Sulphur Dioxide and Oxides of Nitrogen emitted from each stack. The measured values and emission limit values are described in mg/Nm3. These values have been standardized to the following conditions in accordance with the Industrial Emission license issued by the EPA: temperature of 273 K, pressure of 101.3 kPa, dry gas and 11% oxygen.

Additional information in respect of the EPA site visits and monitoring is available at <http://www.epa.ie/terminalfour/ippc/ippc-view.jsp?regno=W0232-01>. The facility's Annual Environmental Report for 2017 and the Q1 2018 Environmental Report as issued to the EPA are also attached for information.

#### 2.1 Type of Waste Accepted at the DWtE facility.

The types of waste which can be accepted at the Dublin Waste to Energy Facility are set out within schedule A of the IED licence as issued by the EPA. Schedule A sets out the waste categories and quantities for acceptance at the facility by reference to the relevant European Waste Catalogue Code.

The facility operator has accepted approximately 424K tonnes of waste under ten different EWC codes up to the 31<sup>st</sup> of March 2018. It is noted that the operator is not licensed to undertake any pre-treatment of waste at the facility prior to the combustion process.

The tonnages of waste and associated EWC codes are set in the table below:

<b>EWC code</b>	<b>Total Tonnage</b>
20 03 01	360,902
19 12 12	50,789
20 03 07	11,377
20 03 01	854
19 08 01	49
02 01 03	30
02 02 03	8
16 03 04	6
02 06 01	1
02 07 04	1

It is also noted that the majority of waste accepted at the facility is Mixed Municipal Waste, EWC 20 03 01 and that no street cleaning residues, EWC 20 03 03 have been accepted at the facility to date.

## **2.2 Power Generation and percentage of waste classified as biomass.**

From the 01<sup>st</sup> of January to the 31<sup>st</sup> of March 2018 the total electricity exported was 95,446 MWh and as set out in the February report it is currently estimated that the biomass fraction of the waste is approximately 50%, but this is subject to ongoing review and waste characterisation. The Waste Characterisation report is expected to be completed within the coming weeks and the report will verify the assumed biomass fraction.

## **3 Community Liaison**

### **3.1 Update from the DWtE Community Gain Liaison Committee Grant Applications 2016:**

18 of the 32 approved projects have been completed and €1,480,553.88 has been drawn down to date. Four projects have been withdrawn and the remaining 10 projects are ongoing.

### **3.2 Update from the DWtE Community Gain liaison Committee Grant Applications 2017:**

As set out in the February report, the Community Gain Liaison Committee approved in principle 35 grant applications to the value of €4,246,074.00. To date €162,500.00 has been drawdown from the 2017 Community Gain Fund.

## **4 Compliance with statutory consents**

The EPA identified a number of issues associated with the first week of commissioning/operation, which are the subject of non-compliance notifications and a summons issued by the agency to DWTEL to appear in the district

court on the 25<sup>th</sup> of September 2017. The court proceedings were initially adjourned by four weeks until the 23<sup>rd</sup> of October and were subsequently further adjourned to the 05<sup>th</sup> of March 2018.

The case was heard in the district court on the 26<sup>th</sup> of March 2018. Dublin Waste to Energy Limited entered a plea in respect of three of the issues and the remaining issues were dropped. The three issues related to:

- failing to operate the incineration plant in such a way that after the last injection of combustion air, the gas resulting from the process was raised, in a controlled and homogeneous fashion, for a duration of two seconds to a temperature of 850°C,
- failing to automatically switch on the auxiliary burners in order to maintain a temperature of 850°C while waste was in the combustion chamber,
- failure to notify the EPA of an incident within the specified time frames.

The judge imposed a fine of €1,000 in respect of one of the charges while the other two counts were struck out and the judge also directed the defendant to pay €14,000 in legal costs

The EPA has also concluded their investigation into the incident at the Facility on the 07<sup>th</sup> of June 2017 and has issued the following summary on their website:

<http://www.epa.ie/pubs/reports/enforcement/reportonlimespillatdublinwastetoenergy7thjune2017.html>

***'Report on Lime spill at Dublin Waste to Energy 7th June 2017***

***Summary:*** EPA Report on the investigation of the Lime spill incident which occurred at the Dublin Waste to Energy Facility, Poolbeg on 7th June 2017.

*Dublin Waste to Energy Limited (hereafter referred to as DWtE) commenced incineration of waste at their facility located at Pigeon House Road, Poolbeg, Dublin 4 on the 1st June 2017. An incident involving the release of lime occurred at the facility on the 7th June 2017 which resulted in ten contractors attending the Emergency Department at St. Vincent's Hospital.*

*Based on its investigation of the incident, the Environmental Protection Agency (EPA) concluded that:*

- *The incident occurred because of inappropriately fitted door seals*
- *The quantity of lime released was 1-2 cubic meters*
- *There was no release of lime from the building*
- *There was no public health or environmental impact associated with the incident*
- *The lime was collected and disposed of off-site as hazardous waste, and*
- *DWtE made process modifications and improvements to the plant following the incident.*

*The EPA approved the recommencement of waste incineration at the site on 7th July. The EPA was satisfied with the corrective actions undertaken by DWTE and with their protocol for resuming operations. The Health and Safety Authority lifted its prohibition notice on the 3rd July.'*

The full report is attached for reference.

As of the 18<sup>th</sup> of April there have been 46 incidents reported to the EPA in respect of the facility's performance during commissioning and the EPA has issued a total of 24 non-compliance notices.

For information, please find attached, two non-compliance notices issued by the EPA in respect of the facility's operation since the meeting of the Environment SPC on the 29<sup>th</sup> of March and two incident reports issued by the operator to the EPA since the meeting of the 29<sup>th</sup> of March.

**Dick Brady**  
**Assistant Chief Executive.**