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AGENCY (ENVIRONMENTAL AGENCY REGISTER)

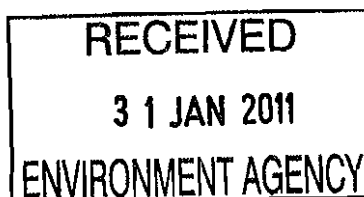
INITIALS DATE

NEI 3/4/11

NEI 16/2/11

NEI 16/2/11

Mr Neil Iles
Environment Agency
Sentinel House
Wellington Crescent
Fradley Park
Lichfield
Staffs WS13 8RR



27th January 2011

Dear Mr Iles

**Tyseley Energy Recovery Facility
Environmental Permit WP3239SJ**

In accordance with the Environmental Permit WP3239SJ, Veolia ES Birmingham Ltd. encloses the following reports:

- Report on the annual performance of the permitted installation to comply with condition 4.1.4
- Review of fugitive emissions to comply with condition 4.1.5
- Summary report of the progress towards improvement targets from the management system to comply with condition 4.1.6

I hope you find this in order. Please can you confirm receipt of these documents.

Yours sincerely,

Mr. Steve Haywood
Facility Manager
For and on behalf of Veolia ES Birmingham Ltd

Veolia ES Birmingham Limited
James Road, Tyseley, Birmingham B11 2BA
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A member of Veolia Environmental Services (UK) Plc
Registered Office: James Road, Tyseley, Birmingham, B11 2BA
Registered in England 2692681

Veolia Environnement
**Wildlife
Photographer
of the Year**

Annual performance report for VESB Tyseley ERF
Permit No. WP3239SJ Year 2009

This report is required under the Waste Incineration Directive's Article 12(2):- requirements on access to information and public participation. This requires the operator of an incineration or co-incineration plant to produce an annual report to the regulator on the functioning and monitoring of the plant and to make this available to the public. To satisfy the requirements of the directive, the following information is provided in this report:

1. Introduction.

Name of Company	Veolia Environmental Services Birmingham Ltd
Name of Plant	Tyseley ERF
Permit Number	WP3239SJ
Address	James Road Tyseley Birmingham B11 2BA
Phone number	0121 680 2000
Further information	All municipal waste arising in Birmingham that is not recycled is incinerated at this ERF, providing a long term, sustainable solution for waste disposal in the area as part of the integrated approach to waste management within Birmingham, which achieves minimal disposal of waste to landfill.

Further copies of this report are available through:
www.environment-agency.gov.uk

2. Plant description.

The main purpose of the activity carried out at this facility is to incinerate, primarily, Municipal Solid Waste (MSW) as defined by EWC 20 03 01, recovering energy in the form of steam and electricity generating 27 MW for export to the National Grid. The permit covers the site and the entire incineration process which includes all incineration lines, waste reception and storage, waste-fuel and air supply systems, boilers, facilities for the treatment of exhaust gases, on-site facilities for handling and storage of residues and operations, recording and monitoring conditions.

3. Summary of plant operation.

This facility consists of two incineration lines, each capable of processing approximately 23.5 tonnes per hour, which takes approximately 350,000 tonnes of Birmingham's waste each year but this, is dependent on two factors: actual operating hours and calorific value of the waste being burnt.

The third incineration line processes clinical waste and other designated hazardous wastes (CWI) at a nominal rate of 600kg/hour.

Waste Type	EWC			
Mixed municipal Waste	20 03 01			
Separately collected fractions including packaging, food wastes, market wastes, street cleaning residues and bulky wastes.	02 01 02;	02 01 03;	02 01 06;	02 01 07;
	02 02 02;	02 02 03;	02 03 04;	02 05 01;
	02 06 01;	02 07 04;	03 01 01;	03 01 05;
	04 02 09;	04 02 15;	04 02 21;	04 02 22;
	15 01 01;	15 01 02;	15 01 03;	15 01 04;
	15 01 05;	15 01 06;	15 01 09;	15 02 03;
	16 02 14;	16 03 04;	16 03 06;	18 01 09;
	18 02 03;	18 02 06;	18 02 08;	20 01 01;
	20 01 02;	20 01 08;	20 01 10;	20 01 11;
	20 01 28;	20 01 30;	20 01 32;	20 01 38;
	20 01 39;	20 02 01;	20 03 01;	20 03 02;
	20 03 04;	20 03 07;		
Low grade clinical wastes categories	18 01 04			
Separately collected fractions including veterinary wastes, special packaging, absorbents, organic and inorganic wastes, cytotoxic and cytostatic medicines, wood wastes and special municipal wastes.	02 01 02;	02 01 06;	02 02 02;	03 01 04;
	04 02 14;	04 02 16;	15 01 10;	15 02 02;
	16 03 03;	16 03 05;	18 01 06;	18 01 08;
	18 01 10;	18 02 01;	18 02 02;	18 02 05;
	18 02 07;	20 01 26;	20 01 27;	20 01 29;
	20 01 31;	20 01 37;	20 01 99 (drug abuse litter only)	
All categories of healthcare and clinical wastes	18 01 01;	18 01 02;	18 01 03;	
Wastes from organic chemical processes	07 01 03;	07 01 04;	07 01 09;	07 01 10;
	07 02 03;	07 02 04;	07 02 09;	07 02 10;
	07 02 13;	07 03 03;	07 03 04;	07 02 09;
	07 03 10;	07 04 03;	07 04 04;	07 04 09;
	07 04 10;	07 04 13;	07 05 03;	07 05 04;
	07 05 09;	07 05 10;	07 05 13;	07 05 14;
	07 06 03;	07 06 04;	07 06 09;	07 06 10;
	07 07 03;	07 07 04;	07 07 09;	07 07 10;
	09 01 10;	09 01 11;	09 01 12;	16 05 04;
	20 01 35;			

The average calorific value of general municipal waste is 9200 kJ/kg.

Plant Operational details are included in the table below.

Operating Hours	8760	Hours
Total Waste Incinerated	366414	Tonnes
Electricity Produced	166230	MWh
Metals Recovered	3406	Tonnes
Incinerator Bottom Ash	81400	Tonnes
APC residues	10124	Tonnes

Ash residues (known as Incinerator Bottom Ash or IBA) are currently sent to Castle Bromwich for reprocessing. This material is reprocessed by extracting further ferrous and non-ferrous metals and by crushing, trommelling and screening to produce a graded, quality material that is useable as substitute aggregate in such applications as road building.

Ferrous metal removed from the IBA is sent to a steel manufacturer for recycling.

Fine particulate matter, known as Air Pollution Control (APC) residues, removed from the flue gases by the fabric filter is collected and sent to the Minosus Hazardous Waste underground storage facility in Cheshire.

4. Summary of plant emissions.

All emissions to air from the two 80m high chimneys are controlled to meet the emission limits included in the Environmental Permit. The flue gases released into the atmosphere are continuously monitored for Particulate Matter, TOC, Hydrogen Chloride, Oxides of Nitrogen, Carbon Monoxide, Ammonia and Sulphur Dioxide.

Bi-annual and quarterly check monitoring of this equipment is carried out by approved contractors using independent extractive sampling methods, at which time emissions of Metals, Dioxins and other substances as listed below are also monitored.

<i>Emission</i>	<i>Monitored</i>
Particulate Matter	Continuously
TOC	Continuously
Hydrogen Chloride	Continuously
Oxides of Nitrogen	Continuously
Carbon Monoxide	Continuously
Sulphur Dioxide	Continuously
Ammonia	Continuously
Hydrogen Fluoride	Bi-annual
Mercury	Quarterly
Arsenic	Quarterly
Cadmium	Quarterly
Chromium	Quarterly
Copper	Quarterly
Nickel	Quarterly
Manganese	Quarterly
Antimony	Quarterly
Lead	Quarterly
Thallium	Quarterly
Dioxins and Furans	Bi-annually
PAH's	Bi-annually
PCB's	Bi-annually

The Continuous Emissions Monitoring equipment (CEMs) was in service during 2009 for 100% of the plant operating time. This equipment is stringently monitored with routine calibration checks and is standardised to BS EN14181:2004.

Half hourly and daily average emission data for continuously monitored emissions is supplied to the Environment Agency on a monthly basis. This information is available to the public. This information can be found at: <http://www.veoliaenvironmentalservices.co.uk/Birmingham/Facilities/Energy-recovery/Emissions-to-Air-data/>

Table showing the Annual total for emissions of periodically monitored pollutants

Pollutant	Unit	Annual Total
Hydrogen Fluoride	Kg	678
Mercury	Kg	9,05
Arsenic	Kg	3,01
Cadmium	Kg	5,22
Chromium	Kg	11,76
Copper	Kg	9,31
Nickel	Kg	13,73
Manganese	Kg	57,66
Antimony	Kg	6,76
Lead	Kg	32,89
Thallium	Kg	2,14
Dioxins and Furans	Kg	0.0000875
PAH's	Kg	1
PCB's	Kg	0.0012

5. Summary of plant compliance.

Strict environmental controls and proven operating experience ensures that the facility is compliant with all conditions of its Environmental Permit at all times. This is achieved through constant monitoring of the incineration process during all of the stages, with detailed procedures in place to enable trained staff to carry out their work in an environmentally compliant manner.

During 2009 VESB Tyseley ERF operated within the Permitted Emission Limit Values (ELV) for 100% of operational time, thus no enforcement actions were required by the Environment Agency.

Table of plant compliances.

Breach of Permit Conditions	0
Abnormal Operations	0
Enforcement Actions	0
General Complaints	0

Any complaints received at the facility are thoroughly investigated with a full report being kept as to the outcome of the investigation.

6. Summary of plant improvements.

During the year there have been no plant improvements made at this facility.

7. Summary of information made available:

Average daily emissions for each month are available to the public at the following website:

<http://www.veoliaenvironmentalservices.co.uk/Birmingham/Facilities/Energy-recovery/Emissions-to-Air-data/>

As part of their regulatory responsibility the Environment Agency inspector visits the facility on a regular basis. There are further copies of this report available from the Environment Agency.

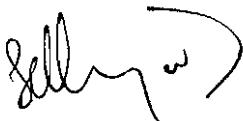
Local Environment Agency Office:

Upper Trent Area Office
Sentinel House
Wellington Crescent
Fradley Park
WS13 8RR

A local liaison group called the Ackers Trust gather every two months:

Ackers Trust
Golden Hillock Road
Small Heath
Birmingham
B11 2PY
Tel: 0121 772 5111

Compiled on behalf of the Operator by:



Steve Haywood
Tyseley ERF Facility Manager.
Veolia ES Birmingham Ltd.