

Annual performance report for SITA Tees Valley – Permit No. VP3034SG – Year 2007

1. Introduction

Name of Company	SITA Tees Valley Limited
Name of Plant	SITA Tees Valley Energy from Waste Plant
Permit Number	VP3034SG
Address	Haverton Hill Road, Billingham, TS23 1PY
Phone	01642 202300
Contact name	Mr. Mark Lazenby
Position	Technical Officer.
Further information, description of waste types burned and origin.	Municipal household waste from Stockton, Middlesbrough, Hartlepool and Redcar & Cleveland Councils.

2. Plant description

This municipal waste incinerator operates 24/7 and can receive up to 5,500 tonnes of municipal waste from Stockton, Middlesbrough, Hartlepool and Redcar & Cleveland Councils each week. The plant has two furnace lines with a combined processing capacity of 263,000 tonnes pa. The heat produced by waste incineration is used to raise superheated steam which is harnessed to turn a single-cylinder turbine linked to an electricity generator producing ~20MWh of electricity. Power produced, is sold to the National Grid under a NFFO (National Fossil Fuel Obligation) contract.

3. Summary of plant operation:

Incoming waste is delivered to the installation by refuse collection vehicles, it is checked in, weighed, then delivered into the refuse reception hall where it is offloaded into a large concrete-lined bunker. Mixing of waste occurs as the crane driver sorts the waste looking for unsuitable items for incineration, and to improve the homogeneity of the incinerator feedstock. Sufficient quantity of waste is maintained in the bunker to ensure the continuous operation of both incinerators. Waste is lifted into two charging hoppers by the crane, from here waste falls into the charging chutes into the furnace.

Each incinerator is divided into three independent grate sections: 1) for feeding, drying and ignition of the waste, 2) for burning the waste and 3) for the burn-out and transport of clinker to the clinker chute. Small particles of combusted or non-combusted waste (siftings) fall through the grates and are collected in hoppers. Both the siftings and the clinker are transferred via conveyors to the clinker pit. The resultant material is transferred to an open top wagon and taken to the adjacent recycling plant located outside of this installation to be screened and graded, providing an aggregate for the construction industry. Water used for quenching the clinker is recycled water from the recirculation tank.

Each incinerator has three gas oil auxiliary burners. These function to increase the furnace temperature during start-up and maintain the required temperature when incinerating waste of low calorific value. Each furnace has a post-combustion chamber where all remaining unburned gases are burnt-out. The heat from the flue-gas is transferred by radiation and convection to water in the boiler tube walls. The Eckrohr boiler has natural circulation and due to the relatively small volume of water in the boiler tube walls the water heating/steam production starts shortly after start-up of combustion.

Superheated steam drives a single cylinder, single exhaust turbine which drives the generator. Steam is then passed to a two-pass rectangular shell and tube condenser. River water is used as the cooling media for the condensing of steam. River water is also used to cool the lubrication oil for the turbine.

Flue gas is then passed through a series of reactors. The first reactor injects lime slurry via a spray atomiser, to neutralise the acid component of the flue gas. The slurry is dried by this process and a proportion of the dry lime is recovered for reuse and the remainder is collected in bag filters. Downstream acid gas analysers control reagent injection. The second reactor uses powdered activated carbon (PAC) to absorb dioxins and heavy metals. The PAC is stored in a silo from which portions are conveyed to a buffer hopper and continuously distributed in the flue gas.

The rate of PAC injection was set during commissioning to provide optimum abatement. As dioxins and heavy metals are not measured continuously, it is not practical to vary the feed rate by real-time control therefore the results of periodic testing for those materials is used to adjust the dosing rate which is always set to give excess abatement. After the reactors, the gases are drawn into the baghouse where the remaining particulate matter is removed. CEMs (Continuous Emissions Monitors) are located downstream of the bag filter and Induced draught fan. The mixture of fly ash and air pollution control residues (APC residues) separated from the flue gas are collected in hoppers and transported by conveyor to silos.

To reduce fugitive emissions, extraction for disposal occurs from the base of these silos, and is loaded into large bags for transport off site for long-term storage. Final exhaust gases from both incinerator lines are released via

two independent flues A1 and A2, at 70m in height. Surface water run-off exits the installation to a pipeline that discharges to the River Tees. Surface water run offs from fuel delivery areas are protected by oil/water interceptors. Periodic boiler blowdown during maintenance of the incinerator and effluents from other processes in the area are also discharged to this pipeline. The Agency classifies this pipeline as a sewer since it is not covered by the definition of a controlled water, the only other option.

Plant size including number of lines	2 lines @ 14 t/hr for a waste Calorific Value of 10MJ/kg	
Annual waste throughputs	206427 Municipal household waste in 2007	
Total plant operational hours in the year and reasons for any significant outages (e.g. annual shutdown, abatement plant failure, boiler failure, etc.).	8095hrs Annual shut-downs February and October.	
Residues produced	APC (Air Pollution Control) residues	Bottom-ash
Amount of each residue, including metals (where appropriate) recycled/landfilled	7624t APC stored Minosis, long term underground	57486t 100% sent for recycling
Electricity produced/ exported.	122,651MWh per annum 40,000 Households	

Annual waste throughputs

Waste Types	EWC code	Tonnes used
Mixed Municipal waste	20 03 01	206,427

4. Summary of plant monitoring:

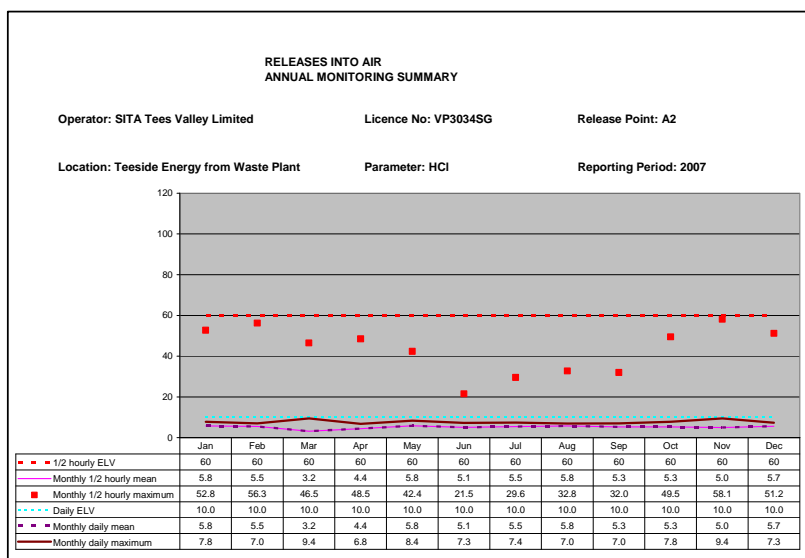
Parameter	Emission point	Limit	Reference period	Monitoring Frequency
Particulate Matter	A1,A2	30mg/m ³	1/2 hour average	Continuous
Particulate Matter	A1,A2	10mg/m ³	Daily Average	Continuous
Particulate Matter	A1,A2	20mg/m ³	min 1 hour period	Bi-annual
Total Organic Carbon	A1,A2	20mg/m ³	1/2 hour average	Continuous
Total Organic Carbon	A1,A2	10mg/m ³	Daily average	Continuous
Total Organic Carbon	A1,A2	20mg/m ³	Minimum 1hour period	Bi-annual
Hydrogen Chloride	A1,A2	60mg/m ³	1/2 hour average	Continuous
Hydrogen Chloride	A1,A2	10mg/m ³	Daily average	Continuous
Hydrogen Chloride	A1,A2	30mg/m ³	Minimum 1hour period	Bi-annual
Hydrogen Fluoride	A1,A2	2mg/m ³	Minimum 1hour period	Quarterly
Carbon Monoxide	A1,A2	100mg/m ³	1/2 hour average	Continuous
Carbon Monoxide	A1,A2	50mg/m ³	Daily average	Continuous
Carbon Monoxide	A1,A2	100mg/m ³	Minimum 4 hour period as 1/2 hour averages	Bi-annual
Sulphur Dioxide	A1,A2	200mg/m ³	1/2 hour average	Continuous
Sulphur Dioxide	A1,A2	50mg/m ³	Daily average	Continuous
Sulphur Dioxide	A1,A2	200mg/m ³	Minimum 4 hour period as 1/2 hour averages	Bi-annual
Oxides of Nitrogen as NO ₂	A1,A2	400mg/m ³	1/2 hour average	Continuous
Oxides of Nitrogen as NO ₂	A1,A2	200mg/m ³	Daily average	Continuous
Oxides of Nitrogen as NO ₂	A1,A2	400mg/m ³	Minimum 4 hour period as 1/2 hour averages	Bi-annual
Cadmium &Thallium and their compounds (total)	A1,A2	0.05mg/m ³	Minimum 30 minute, max 8 hour period	Quarterly
Mercury and its compounds	A1,A2	0.05mg/m ³	Minimum 30 minute, max 8 hour period	Quarterly
Sb, As, Pb, Cr, Co, Cu, Mn, Ni, V and their compounds	A1,A2	0.5mg/m ³	Minimum 30 minute, max 8 hour period	Quarterly
Dioxins/Furans (I-TEQ)	A1,A2	0.1ng/m ³	Minimum 6 hours, max 8 hour period	Bi-annual

Dioxins/Furans (WHO-TEQ) Humans /Mammals	A1,A2		Average value over sample period of 6-8 hours	Bi-annual
Dioxins/Furans (WHO-TEQ) Fish	A1,A2		Average value over sample period of 6-8 hours	Bi-annual
Dioxins/Furans (WHO-TEQ) Birds	A1,A2		Average value over sample period of 6-8 hours	Bi-annual
Dioxin like PCBs (WHO-TEQ) Humans /Mammals	A1,A2		Average value over sample period of 6-8 hours	Bi-annual
Dioxin like PCBs (WHO-TEQ) Fish	A1,A2		Average value over sample period of 6-8 hours	Bi-annual
Dioxin like PCBs (WHO-TEQ) Birds	A1,A2		Average value over sample period of 6-8 hours	Bi-annual
Specific poly-cyclic aromatic hydrocarbons (PAHs)	A1,A2		Average value over sample period of 6-8 hours	Bi-annual
Visible oils and greases	S1	None Visible		Daily
Visible oils and greases	S4	None Visible		no time scale given
Suspended solids	S4	50mg/m ³		no time scale given
TOC	Bottom Ash	>3%		Quarterly
Sb,Cd, Th, Hg, As, Pb, Cr, Co, Cu, Mn, Ni, V, Zn and their compounds	Bottom Ash			Quarterly
Dioxins /Furans and dioxin like PCBs	Bottom Ash			Quarterly
Sb,Cd, Th, Hg, As, Pb, Cr, Co, Cu, Mn, Ni, V, Zn and their compounds soluble fractions	Bottom Ash			Before use of a new disposal or recycling route
Sb,Cd, Th, Hg, As, Pb, Cr, Co, Cu, Mn, Ni, V, Zn and their compounds	APC Residues Lines 1 & 2			Quarterly
Dioxins /Furans and dioxin like PCBs	APC Residues Lines 1 & 2			Quarterly
Sb,Cd, Th, Hg, As, Pb, Cr, Co, Cu, Mn, Ni, V, Zn and their compounds soluble fractions	APC Residues Lines 1 & 2			Before use of a new disposal or recycling route

CEMs extraction point	Temperature			Continuous
	Oxygen content			Continuous
	Pressure			Continuous
	Water vapour content			Continuous
Water Usage	Installation			Quarterly
Energy usage	Installation			Quarterly
Performance Indicators	Installation			Quarterly
Waste Disposal/Recovery	Installation			Quarterly
Pollution Inventory	Installation			Quarterly
Water Abstraction	Installation		record abstractions once each week	
Annual Report				
Total Municipal waste incinerated	Installation	tonnes		
Total Commercial waste incinerated	Installation	tonnes		
Electrical energy exported	Installation	KWhrs		
Electrical energy used	Installation	KWhrs		
Electrical energy imported	Installation	KWhrs/tonne		Quarterly
Fuel oil consumption	Installation	kg/tonne		Quarterly
Mass of bottom ash produced	Installation	kg/tonne		Quarterly
Mass of bottom APC residues produced	Installation	kg/tonne		Quarterly
Ammonia consumption	Installation	kg/tonne		Quarterly
PAC consumption	Installation	kg/tonne		Quarterly
Lime consumption	Installation	kg/tonne		Quarterly
Water consumption	Installation	m ³ /tonne		Quarterly

CEMS Data

The data collected from the CEMS has been represented in graphical form an example of which is shown below. The graphs are in appendix 1 at the end of the document.



The data for each parameter monitored is represented in an individual chart. Data represented is:

1/2 Hourly Average ELV- shows the 1/2 hourly emission limit value.

Monthly 1/2 Hourly mean- shows the average value for 1/2 hourly continuous monitoring for each month.

Monthly 1/2 Hourly Average maximum- shows the maximum of any half hourly average value.

Daily Average ELV- shows the daily emission limit value.

Monthly Daily mean- shows the average values for average daily continuous monitoring over the month.

Monthly Daily Average maximum shows the maximum value for daily continuous monitoring over the month.

The CEM's data reported has taken into account any measurement uncertainty.

Table showing the annual emissions of monitored emissions.

Data taken From PIEDC Pollution Inventory EDC reporting Form as reported to the Environment agency on their annual return.

<i>Parameter</i>	<i>Reporting Threshold</i>	<i>brt (below recorded threshold) or releases</i>	<i>Notifiable releases</i>
Carbon Dioxide	10,000,000kg	206,427,000kg	
Ammonia	1000kg	2500kg	
Antimony Sb	1kg	1.87kg	
Arsenic As	1kg	1.18kg	
Cadmium Cd	1kg	2.65kg	
Chromium Cr	10kg	115.1kg	
Copper Cu	10kg	brt	
Lead Pb	100kg	brt	
Manganese Mn	10kg	brt	
Mercury Hg	1kg	6.52kg	
Nickel Ni	10kg	brt	
Vanadium V	10kg	brt	
Chlorine and inorganic chlorine compounds - as HCl	10,000kg	brt	143kg
Dioxins and furans (PCDDs/PCDFs)	0.00001kg	0.00013kg	0.29mg
Fluorine and inorganic fluorine compounds –as HF	1,000kg	brt	
Nitrogen oxides (NO and NO₂) as NO₂	100,000kg	185,000kg	
Non-methane volatile organic compounds	10,000kg	brt	
Particulate matter	10,000kg	brt	
Polychlorinated biphenyls (PCBs)	0.00001kg	0.00002kg	
Sulphur oxides (SO₂ and SO₃) as SO₂	100,000kg	brt	11.3kg

5. Summary of plant compliance:

- (a) Table showing percentage of the operating time the plant was in compliance with the permit conditions (e.g. the plant met its SO₂ emission limits 100 % of the time and particulates limits 99.97% of the time etc)

<i>Parameter measured</i>	<i>% of operational time plant was in compliance</i>
Particulates	100%
Oxides of Nitrogen	100%
Sulphur Dioxide	99.99%
Carbon Monoxide	100%
Total Organic Carbon	100%
Hydrogen Chloride	99.88%
Mercury	100%
Cadmium and Thallium	100%
Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V and their compounds	100%
PCDD and PCDF	99.85%
Hydrogen Fluoride	100%

- (b) Table showing non-compliances notified to the Agency.

<i>Parameter</i>	<i>Date</i>	<i>Reason</i>	<i>Actions Taken</i>
Hydrogen Chloride	March 2007 Part A/B HCl abatement at minimum level for 9 ½ hours	Backup analyser was not configured to control abatement system	New PLCs added to system to ensure abatement of HCl should main analyser fail.
PCDD and PCDF	June 2007 Quarterly air extractives show higher than normal PCCD/PCDF levels	High PCCD/PCDF levels possibly due to steam leaks within superheaters.	PAC dosing increased and superheaters replaced.
Sulphur dioxide	October 2007 SO ₂ exceedance of ½ hourly average.	Blockage in lime slurry delivery pipes.	Parts replaced. System cleaning scheduled for spring shutdown.

- (c) Any formal enforcement actions (i.e. Notices or prosecution).

Formal warning for Hydrogen Chloride exceedance in March 2007

6. Summary of plant improvements:

IC1	SNCR NO_x reduction plant.
	<p>As required by IPC variation. AM4380/BZ6422 dated 10th October 2005.</p> <p>The operator shall submit a written report to the Agency detailing the level of ammonia in the gas stream for line 1 and line 2 and an environmental impact assessment of the ammonia emissions from each line and in combination.</p> <p><i>Report submitted. IC1 completed.</i></p>
IC2	Particulate Monitoring.
	<p>The operator shall submit a proposal to the agency to carry out tests to determine the size distribution of the particulate matter in the exhaust gas emissions to air from emission point A1 and A2, identifying the fractions with the PM₁₀, PM_{2.5} and PM_{1.0} ranges.</p> <p><i>Information was submitted to the Environment Agency by the due date.</i></p>
IC3	Bottom ash.
	<p>Investigate the source of the heavy metal concentration in bottom ash and identify techniques (including but not limited to better segregation of materials at source and better process controls) to minimise the amount of heavy metals in the bottom ash leaving the installation</p> <p><i>Following the agreement between Environment Agency and ESA currently classifying the bottom ash as non-hazardous this condition is in abeyance until further detailed studies are complete.</i></p>
IC4	Relocation of S1
	<p>Submit a report to the Agency detailing the work required to relocate sample point S1 to ensure any monitoring of effluent passing this point is representative of those releases leaving the site. Include a timetable to complete this work and a commitment to submit a plan of the site marked with the new S1 monitoring location and a justification for the chosen location.</p> <p><i>Report submitted to the Agency regarding alternative sampling location. IC4 completed</i></p>
IC5	Waste re-use
	<p>Conduct an investigation into techniques to stabilise the contaminants within fly ash to enable its re-use.</p> <p><i>The investigation into stabilising the fly ash has been progressing over a number of years. However the project is unable to progress at present due to the uncertainty in legislation as to the level of treatment required for the fixing of heavy metals and chlorides in the stabilised material. The situation is complicated further by the current issue of the approved supplier List (8th edition), which now brings copper and zinc oxides into account. Until this matter is clarified the project is not able to progress.</i></p>

IC6	BS EN 14181
	The operator shall calibrate and verify the performance of Continuous Emission Monitors for release points and parameters as specified in table 2.2.2 to BS EN 14181 and submit a summary report to the Environment Agency as evidence of compliance with the requirements of BS EN 14181 <i>Report submitted to the Environment Agency.</i>
IC7	Accident prevention
	Submit a report to the Agency demonstrating that techniques and procedures have been implemented to prevent overflowing of storage tanks, liquid or powder e.g. level measurement, independent high-level alarms, high-level cut-off and batch metering <i>Report submitted to the Environment Agency.</i>
IC11	Abatement controls
	Review the techniques for the controlled addition of activated carbon during periods of feed equipment failure <i>Standby PAC system installed and operational. IC!! Completed.</i>
IC12	Bottom ash sampling
	Investigate possible techniques to enable monthly sampling of bottom ash from individual lines. <i>Report submitted to the Environment Agency whereby acceptable sampling of the line residues could be undertaken.</i>

7. Further information available at

www.sita.co.uk

News information at www.sita.co.uk/news

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Field Code Changed

**RELEASES INTO AIR
ANNUAL MONITORING SUMMARY**

Operator: SITA Tees Valley Limited

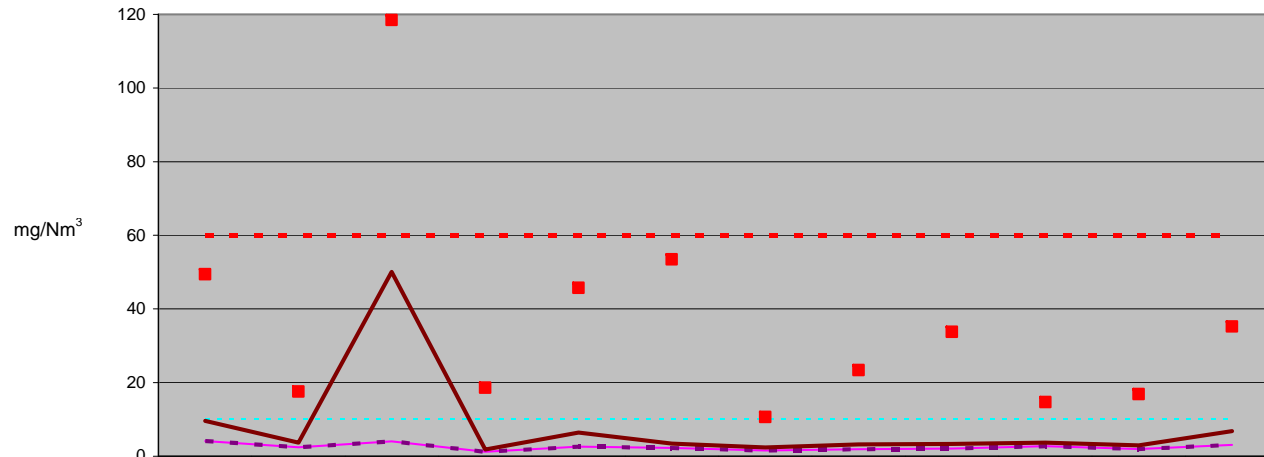
Licence No: VP3034SG

Release Point: A1

Location: Teeside Energy from Waste Plant

Parameter: HCl

Reporting Period: 2007



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1/2 hourly ELV	60	60	60	60	60	60	60	60	60	60	60	60
Monthly 1/2 hourly mean	4.1	2.4	4.0	1.2	2.6	2.2	1.5	1.9	2.1	2.7	1.9	3.1
Monthly 1/2 hourly maximum	49.4	17.6	118.5	18.6	45.7	53.5	10.6	23.4	33.8	14.7	16.8	35.2
Daily ELV	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Monthly daily mean	4.1	2.4	4.0	1.2	2.6	2.2	1.5	1.9	2.1	2.7	1.9	3.1
Monthly daily maximum	9.6	3.7	50.0	1.8	6.4	3.4	2.4	3.2	3.4	3.7	2.9	6.9

**RELEASES INTO AIR
ANNUAL MONITORING SUMMARY**

Operator: SITA Tees Valley Limited

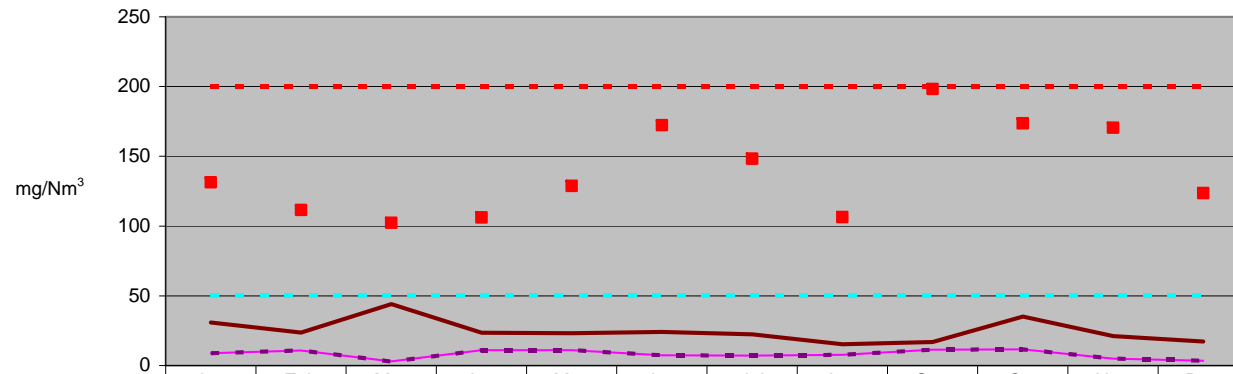
Licence No: VP3034SG

Release Point: A1

Location: Teeside Energy from Waste Plant

Parameter: SO₂

Reporting Period: 2007



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1/2 hourly ELV	200	200	200	200	200	200	200	200	200	200	200	200
Monthly 1/2 hourly mean	8.9	10.8	3.0	11.1	10.9	7.4	7.3	7.7	11.4	11.6	4.9	3.5
Monthly 1/2 hourly maximum	131.4	111.5	102.3	106.2	128.7	172.3	148.2	106.3	198.3	173.7	170.4	123.7
Daily ELV	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
Monthly daily mean	8.9	10.8	3.0	11.1	10.9	7.4	7.3	7.7	11.4	11.6	4.9	3.5
Monthly daily maximum	30.8	23.7	44.2	23.5	23.1	24.0	22.4	15.2	16.9	35.1	21.2	17.2

**RELEASES INTO AIR
ANNUAL MONITORING SUMMARY**

Operator: SITA Tees Valley Limited

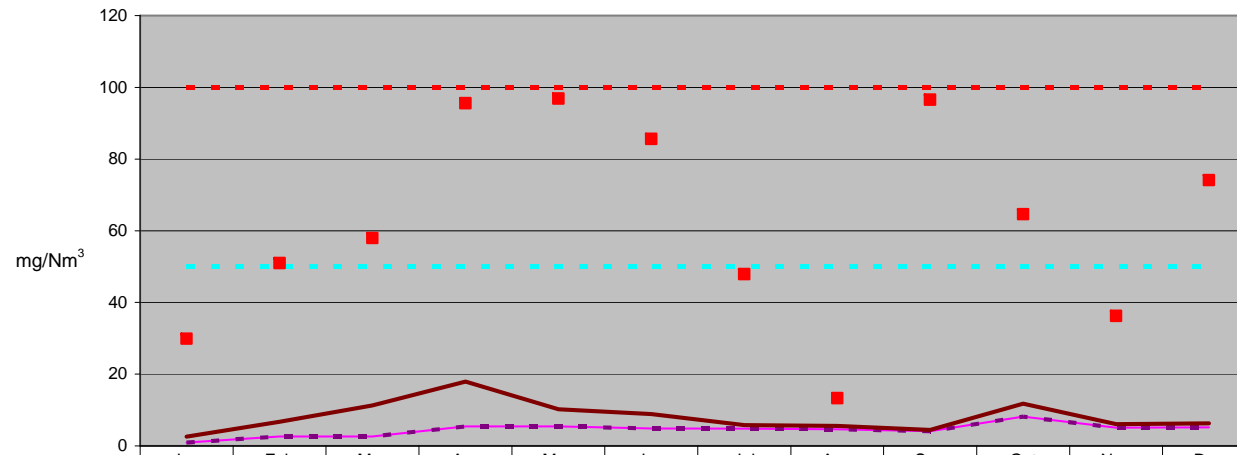
Licence No: VP3034SG

Release Point: A1

Location: Teeside Energy from Waste Plant

Parameter: CO

Reporting Period: 2007



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1/2 hourly ELV	100	100	100	100	100	100	100	100	100	100	100	100
Monthly 1/2 hourly mean	0.9	2.6	2.7	5.4	5.4	4.9	4.8	4.7	4.0	8.1	5.1	5.1
Monthly 1/2 hourly maximum	29.8	50.9	57.9	95.6	96.9	85.6	47.9	13.3	96.5	64.6	36.2	74.1
Daily ELV	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
Monthly daily mean	0.9	2.6	2.7	5.4	5.4	4.9	4.8	4.7	4.0	8.1	5.1	5.1
Monthly daily maximum	2.6	6.7	11.3	17.9	10.2	8.8	5.8	5.6	4.4	11.8	6.1	6.3

**RELEASES INTO AIR
ANNUAL MONITORING SUMMARY**

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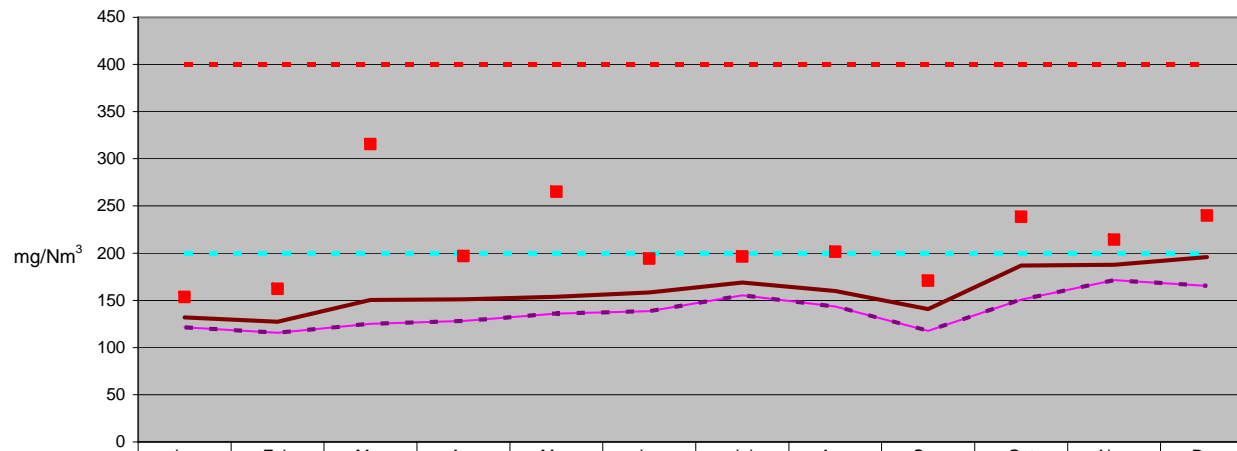
Licence No: VP3034SG

Release Point: A1

Location: Teeside Energy from Waste Plant

Parameter: NOx

Reporting Period: 2007



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1/2 hourly ELV	400	400	400	400	400	400	400	400	400	400	400	400
Monthly 1/2 hourly mean	121.4	115.6	125.2	128.2	136.2	138.6	155.4	143.3	117.5	150.7	171.3	165.3
Monthly 1/2 hourly maximum	153.5	162.2	315.7	196.9	265.0	194.2	196.3	201.6	170.7	238.5	214.1	239.8
Daily ELV	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0
Monthly daily mean	121.4	115.6	125.2	128.2	136.2	138.6	155.4	143.3	117.5	150.7	171.3	165.3
Monthly daily maximum	131.9	127.5	150.5	151.0	153.7	158.4	168.9	159.9	140.7	186.9	187.6	195.7

**RELEASES INTO AIR
ANNUAL MONITORING SUMMARY**

Operator: SITA Tees Valley Limited

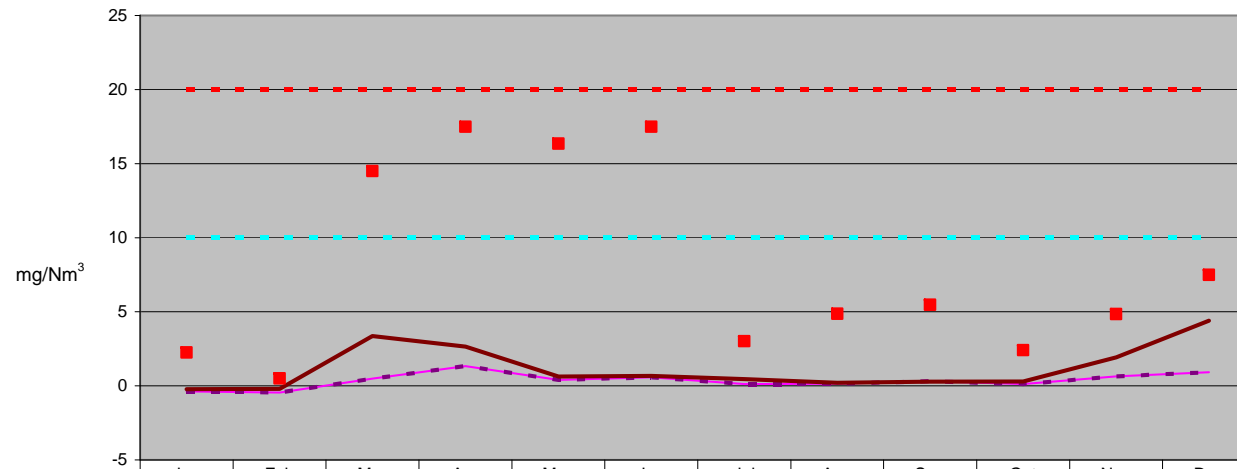
Licence No: VP3034SG

Release Point: A1

Location: Teeside Energy from Waste Plant

Parameter: VOC

Reporting Period: 2007



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1/2 hourly ELV	20	20	20	20	20	20	20	20	20	20	20	20
Monthly 1/2 hourly mean	-0.4	-0.5	0.5	1.3	0.4	0.6	0.1	0.1	0.3	0.1	0.6	0.9
Monthly 1/2 hourly maximum	2.3	0.5	14.5	17.5	16.4	17.5	3.0	4.9	5.5	2.4	4.9	7.5
Daily ELV	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Monthly daily mean	-0.4	-0.5	0.5	1.3	0.4	0.6	0.1	0.1	0.3	0.1	0.6	0.9
Monthly daily maximum	-0.2	-0.2	3.4	2.6	0.6	0.7	0.5	0.2	0.3	0.3	1.9	4.4

**RELEASES INTO AIR
ANNUAL MONITORING SUMMARY**

Operator: SITA Tees Valley Limited

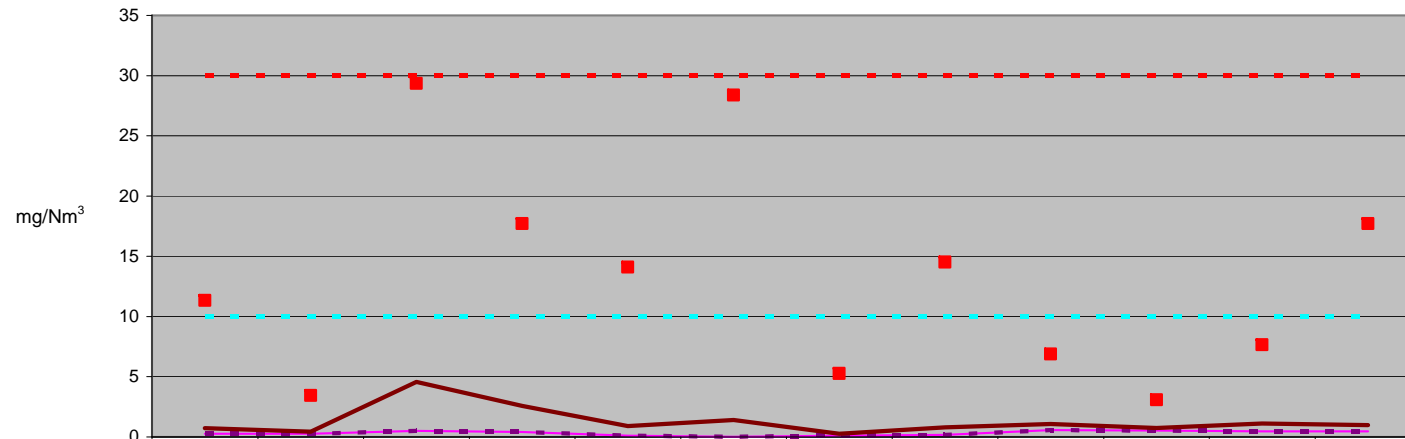
Licence No: VP3034SG

Release Point: A1

Location: Teeside Energy from Waste Plant

Parameter: Particulates

Reporting Period: 2007



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1/2 hourly ELV	30	30	30	30	30	30	30	30	30	30	30	30
Monthly 1/2 hourly mean	0.3	0.3	0.5	0.4	0.1	0.0	0.1	0.2	0.6	0.5	0.5	0.5
Monthly 1/2 hourly maximum	11.3	3.4	29.3	17.7	14.1	28.4	5.3	14.5	6.9	3.1	7.7	17.7
Daily ELV	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Monthly daily mean	0.3	0.3	0.5	0.4	0.1	0.0	0.1	0.2	0.6	0.5	0.5	0.5
Monthly daily maximum	0.7	0.4	4.6	2.6	0.9	1.4	0.3	0.8	1.1	0.7	1.1	1.0

**RELEASES INTO AIR
ANNUAL MONITORING SUMMARY**

Operator: SITA Tees Valley Limited

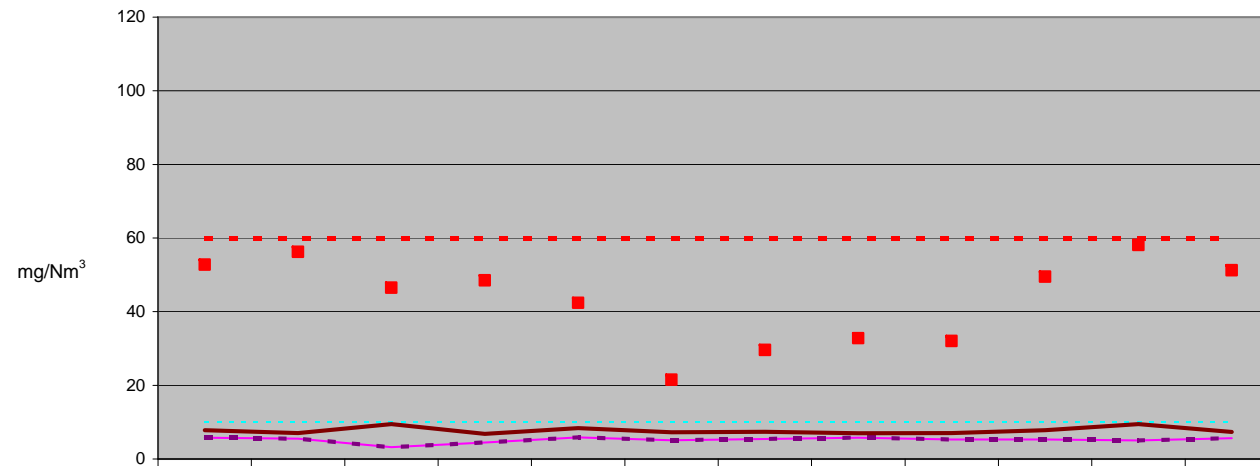
Licence No: VP3034SG

Release Point: A2

Location: Teeside Energy from Waste Plant

Parameter: HCl

Reporting Period: 2007



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1/2 hourly ELV	60	60	60	60	60	60	60	60	60	60	60	60
Monthly 1/2 hourly mean	5.8	5.5	3.2	4.4	5.8	5.1	5.5	5.8	5.3	5.3	5.0	5.7
Monthly 1/2 hourly maximum	52.8	56.3	46.5	48.5	42.4	21.5	29.6	32.8	32.0	49.5	58.1	51.2
Daily ELV	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Monthly daily mean	5.8	5.5	3.2	4.4	5.8	5.1	5.5	5.8	5.3	5.3	5.0	5.7
Monthly daily maximum	7.8	7.0	9.4	6.8	8.4	7.3	7.4	7.0	7.0	7.8	9.4	7.3

**RELEASES INTO AIR
ANNUAL MONITORING SUMMARY**

Operator: SITA Tees Valley Limited

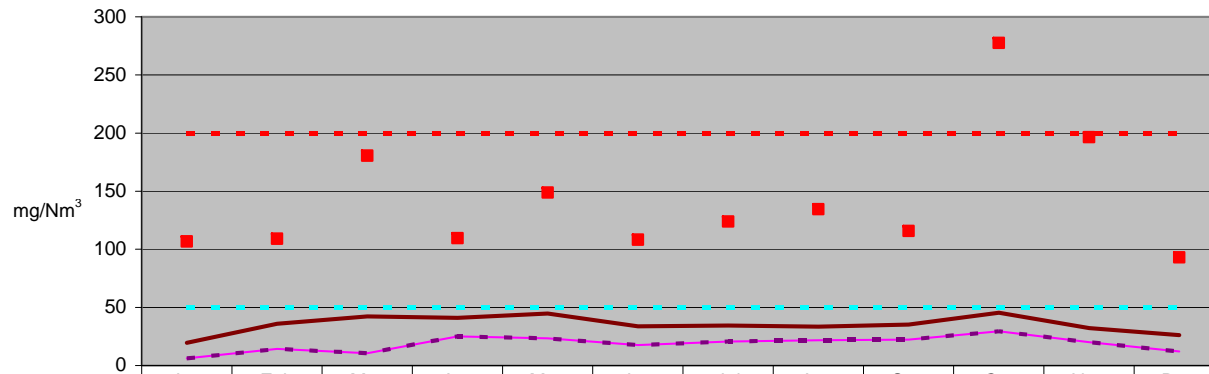
Licence No: VP3034SG

Release Point: A2

Location: Teeside Energy from Waste Plant

Parameter: SO₂

Reporting Period: 2007



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1/2 hourly ELV	200	200	200	200	200	200	200	200	200	200	200	200
Monthly 1/2 hourly mean	6.3	14.4	10.7	25.1	23.5	17.6	20.7	21.9	22.3	29.4	20.1	12.2
Monthly 1/2 hourly maximum	106.6	109.1	180.5	109.6	148.9	108.3	124.0	134.4	115.7	277.6	196.4	93.1
Daily ELV	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
Monthly daily mean	6.3	14.4	10.7	25.1	23.5	17.6	20.7	21.9	22.3	29.4	20.1	12.2
Monthly daily maximum	19.6	35.8	42.2	40.9	44.8	33.8	34.3	33.4	35.2	45.4	32.3	26.1

**RELEASES INTO AIR
ANNUAL MONITORING SUMMARY**

Operator: SITA Tees Valley Limited

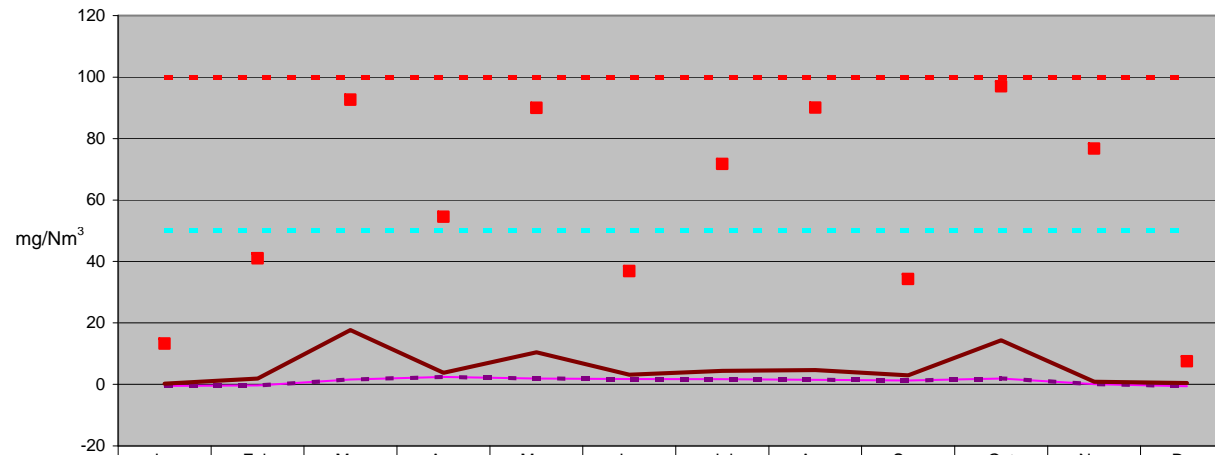
Licence No: VP3034SG

Release Point: A2

Location: Teeside Energy from Waste Plant

Parameter: CO

Reporting Period: 2007



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1/2 hourly ELV	100	100	100	100	100	100	100	100	100	100	100	100
Monthly 1/2 hourly mean	-0.5	-0.3	1.6	2.4	1.9	1.7	1.6	1.5	1.3	1.9	0.1	-0.6
Monthly 1/2 hourly maximum	13.2	41.0	92.6	54.6	90.0	36.8	71.7	90.1	34.3	97.0	76.8	7.5
Daily ELV	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
Monthly daily mean	-0.5	-0.3	1.6	2.4	1.9	1.7	1.6	1.5	1.3	1.9	0.1	-0.6
Monthly daily maximum	0.2	1.9	17.7	3.8	10.4	3.2	4.4	4.7	2.9	14.3	0.8	0.4

**RELEASES INTO AIR
ANNUAL MONITORING SUMMARY**

Operator: SITA Tees Valley Limited

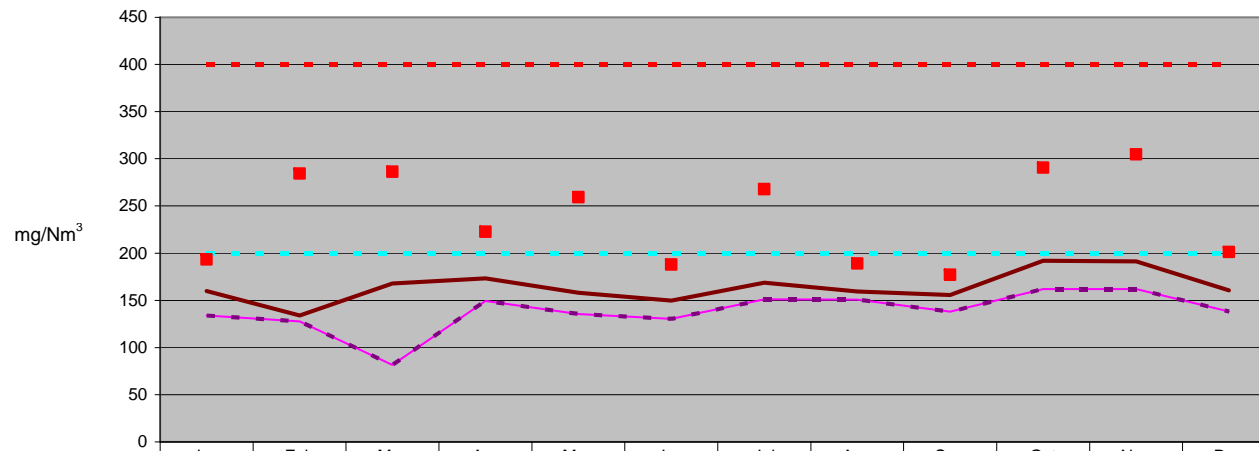
Licence No: VP3034SG

Release Point: A2

Location: Teeside Energy from Waste Plant

Parameter: NOx

Reporting Period: 2007



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1/2 hourly ELV	400	400	400	400	400	400	400	400	400	400	400	400
Monthly 1/2 hourly mean	133.9	127.6	81.6	149.4	135.6	130.5	151.1	150.7	138.0	162.0	161.7	138.2
Monthly 1/2 hourly maximum	193.3	284.3	286.2	222.8	259.4	188.0	267.7	189.0	177.0	290.6	304.7	201.1
Daily ELV	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0
Monthly daily mean	133.9	127.6	81.6	149.4	135.6	130.5	151.1	150.7	138.0	162.0	161.7	138.2
Monthly daily maximum	160.0	134.0	168.0	173.4	158.0	149.6	168.7	159.5	155.5	192.1	191.2	160.6

**RELEASES INTO AIR
ANNUAL MONITORING SUMMARY**

Operator: SITA Tees Valley Limited

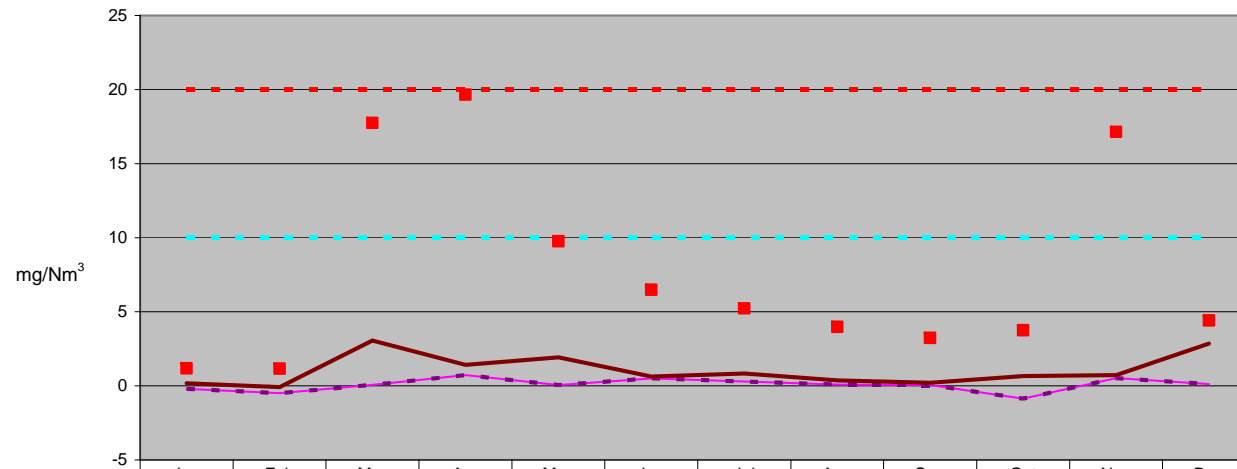
Licence No: VP3034SG

Release Point: A2

Location: Teeside Energy from Waste Plant

Parameter: VOC

Reporting Period: 2007



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1/2 hourly ELV	20	20	20	20	20	20	20	20	20	20	20	20
Monthly 1/2 hourly mean	-0.2	-0.5	0.1	0.7	0.0	0.5	0.3	0.1	0.0	-0.9	0.5	0.1
Monthly 1/2 hourly maximum	1.2	1.2	17.8	19.7	9.7	6.5	5.2	4.0	3.2	3.8	17.1	4.4
Daily ELV	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Monthly daily mean	-0.2	-0.5	0.1	0.7	0.0	0.5	0.3	0.1	0.0	-0.9	0.5	0.1
Monthly daily maximum	0.2	-0.1	3.1	1.4	1.9	0.6	0.8	0.4	0.2	0.7	0.7	2.8

**RELEASES INTO AIR
ANNUAL MONITORING SUMMARY**

Operator: SITA Tees Valley Limited

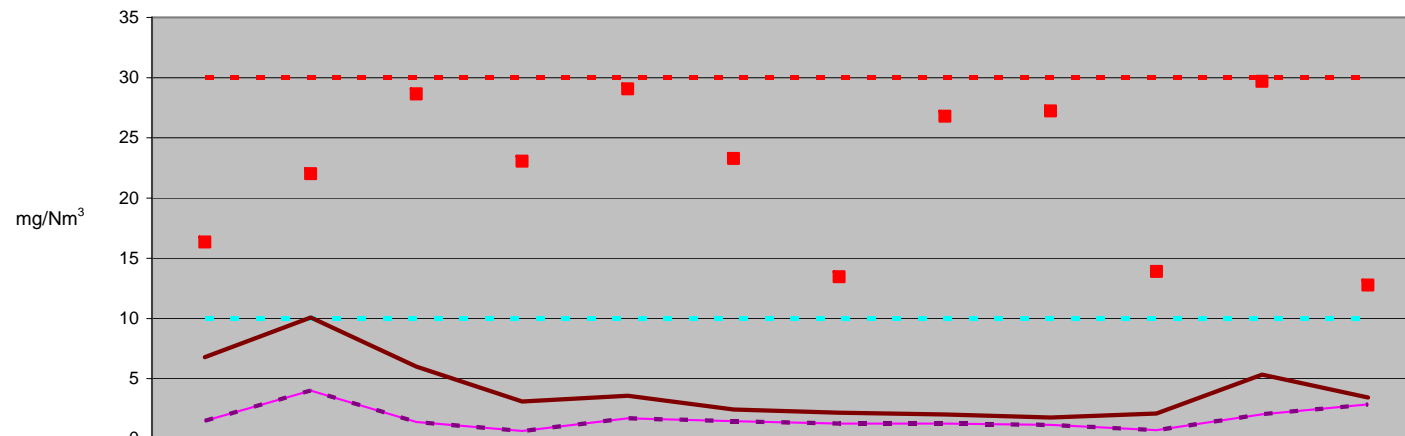
Licence No: VP3034SG

Release Point: A2

Location: Teeside Energy from Waste Plant

Parameter: Particulates

Reporting Period: 2007



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1/2 hourly ELV	30	30	30	30	30	30	30	30	30	30	30	30
Monthly 1/2 hourly mean	1.5	4.0	1.4	0.7	1.7	1.5	1.3	1.3	1.2	0.7	2.1	2.9
Monthly 1/2 hourly maximum	16.4	22.0	28.6	23.1	29.1	23.3	13.5	26.8	27.2	13.9	29.7	12.8
Daily ELV	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Monthly daily mean	1.5	4.0	1.4	0.7	1.7	1.5	1.3	1.3	1.2	0.7	2.1	2.9
Monthly daily maximum	6.8	10.1	6.0	3.1	3.6	2.4	2.2	2.0	1.8	2.1	5.3	3.5