Permit Reference Number : AP3435SD

MES Environmental Ltd
Dudley EFW Facility

Sent To Public Register	
PIR/PPC	
LA	
Comments	

Six-monthly Reporting of Emissions to Air for the period from July 2007 to December 2007

Emission Point	Substance / Parameter	Emission Limit Value (mg/m^3)	Result [1]	Test Method [2]	Sample Date and Times [3] Date	Start	End	Accreditation/ Certification [4] Sampling	Analysis	Uncertainty [5]
A1	Particulate Matter	20[7]	2	BS EN 13284-1	10.10.07	1320	1438	1296	1296	1
A1	Hydrogen chloride	30[7]	13.2	BS EN 1911	10.10.07	1320	1438	1296	1015	1.5
A1	Hydrogen fluoride	2[7]	<0.06	US EPA 26A	10.10.07	1320	1438	1296	1015	0.06
A1	Volatile organic compounds	20[8]	2	BS EN 12619	10.10.07	0930	1330	1296	1296	1
A1	Carbon monoxide	100[8]	64	ISO12039	9.10.07	1140	1540	1296	1296	10
A1	Sulphur dioxide	200[8]	<5	BS6069-4.4	9.10.07	1140	1540	1296	1296	5
A1	Oxides of nitrogen (NO and NO_2 expressed as NO_2)	400[8]	237	ISO 10849	9.10.07	1140	1540	1296	1296	39
A1	Ammonia (NH_3)	No limit applies	1.4	US EPA 26A	10.10.07	1320	1438	1296	1015	0.2
A1	Nitrous oxide (N_2O)	No limit applies	8.6	VDI 2469-1	10.10.07	1450	1508	1296	1296	0.8
A1	Cadmium & thallium and their compounds (total)	0.05[9]	0.0016	BS EN 14385	10.10.07	1515	1629	1296	1015	0.0016
A1	Mercury and its compounds	0.05[9]	0.0037	BS EN 13211	10.10.07	1015	1131	1296	1015	0.0012
A1	Sb, As, Pb, Cr, Co, Cu, Mn, Ni & V and their compounds (total)	0.5[9]	0.0759	BS EN 14385	10.10.07	1515	1629	1296	1015	0.0638
A1	Dioxin-like PCBs (WHO-TEQ Humans / Mammals)[5]	No limit applies	0.0017 - 0.0017	BS EN 1948	24.10.07	1152	1815	1296	1668	0.0004
A1	Dioxin-like PCBs (WHO-TEQ Fish)[6]	No limit applies	0.0001 - 0.0001							0.0001
A1	Dioxin-like PCBs (WHO-TEQ Birds)[6]	No limit applies	0.0048 - 0.0048							0.0010

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								Sampling	Analysis	
A1	Dioxins / furans (I-TEQ)[6]	0.1[10]	0.0095 - 0.0095	BS EN 1948	24.10.07	1152	1815	1296	1668	0.0058
A1	Dioxins / furans (WHO-TEQ Humans / Mammals) [6]	No limit applies	0.0103 - 0.0103							0.0063
A1	Dioxins / furans (WHO-TEQ Fish) 6	No limit applies	0.0101 - 0.0101							0.0062
A1	Dioxins / furans (WHO-TEQ Birds)[6]	No limit applies	0.0162 - 0.0162							0.0100
A1	Poly-cyclic aromatic hydrocarbons (PAHs) Total	No limit applies	10.2	BS ISO 11338-1,2	25.10.07	0900	1015	1296	1668	10.2
A1	Naphthalene	No limit applies	8.4	BS ISO 11338-1,2	25.10.07	0900	1015	1296	1668	8.4
A1	Fluoranthene		0.12							0.12
A1	Benz(a)anthracene		0.12							0.12
A1	Chrysene		0.12							0.12
A1	Benzo(b) fluoranthene		0.12							0.12
A1	Benzo(k) fluoranthene		0.12							0.12
A1	Benzo(a)pyrene (BaP)		0.12							0.12
A1	Indeno(123-cd)pyrene		0.12							0.12
A1	Benzo(ghi)perylene		0.12							0.12
A1	Dibenzo(ah)anthracene		0.12							0.12
A1	Cyclopenta(cd)pyrene		0.12							0.12
A1	Anthanthrene		0.12							0.12
A1	Benzo(b)naph(2,1-d) thiophene		0.12							0.12
A1	Benzo(c)phenathrene		0.12							0.12
A1	Cholanthrene		0.12							0.12
A1	Dibenzo(a,i)pyrene		0.12							0.12

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Notes:

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 (ELV) – see notes 7 to 10. 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 Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated.
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 accreditation status of the equipment and/or the monitoring organisation, as appropriate, for the methods used for both sampling and analysis is given. Where accreditation is held the UKAS laboratory number is given. 'x' indicates that the task is not covered by UKAS accreditation.
5. The uncertainty associated with the quoted result is expressed on a 95% confidence interval basis in the measurement units.
6. The result is reported as a range where:
   - for the *minimum* value all congeners found to be less than the detection limit are assumed to be zero
   - for the *maximum* value all congeners found to be less than the detection limit are assumed to be at the detection limit
7. ELV is based on the value over a minimum 1 hour sampling period.
8. ELV is based on the average of all ½ hourly averages obtained over a minimum sampling period of 4 hours.
9. ELV is based on the value obtained over a sampling period of between ½ hour and 8 hours.
10. ELV is based on the value obtained over a sampling period of between 6 hours and 8 hours.
11. n.l. indicates that no limit has been set for this determinand.

Signed ..... authorised to sign as representative of Operator **Date** .....

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Emission Point	Substance / Parameter	Emission Limit Value (mg/m^3)	Result [1]	Test Method [2]	Sample Date and Times [3] Date	Start	End	Accreditation/ Certification [4] Sampling	Analysis	Uncertainty [5]
A2	Particulate Matter	20[7]	150	BS EN 13284-1	25.10.07	1210	1330	1296	1296	10
A2	Hydrogen chloride	30[7]	3.6	BS EN 1911	25.10.07	1210	1330	1296	1015	0.4
A2	Hydrogen fluoride	2[7]	<0.07	US EPA 26A	25.10.07	1210	1330	1296	1015	0.07
A2	Volatile organic compounds	20[8]	1	BS EN 12619	10.10.07	1500	1900	1296	1296	1
A2	Carbon monoxide	100[8]	24	ISO12039	10.10.07	0800	1200	1296	1296	9
A2	Sulphur dioxide	200[8]	<5	BS6069-4.4	10.10.07	0800	1200	1296	1296	5
A2	Oxides of nitrogen (NO and NO_2 expressed as NO_2)	400[8]	208	ISO 10849	10.10.07	0800	1200	1296	1296	37
A2	Ammonia (NH_3)	No limit applies	11.4	US EPA 26A	25.10.07	1210	1330	1296	1015	1.3
A2	Nitrous oxide (N_2O)	No limit applies	22	VDI 2469-1	10.10.07	1510	1526	1296	1296	2
A2	Cadmium & thallium and their compounds (total)	0.05[9]	0.0092	BS EN 14385	25.10.07	1154	1315	1296	1015	0.0028
A2	Mercury and its compounds	0.05[9]	0.0223	BS EN 13211	25.10.07	1448	1602	1296	1015	0.0061
A2	Sb, As, Pb, Cr, Co, Cu, Mn, Ni & V and their compounds (total)	0.5[9]	0.3057	BS EN 14385	25.10.07	1154	1315	1296	1015	0.1029
A2	Dioxin-like PCBs (WHO-TEQ Humans / Mammals)[6]	No limit applies	0.0029 - 0.0029	BS EN 1948	24.10.07	1154	1627	1296	1668	0.0006
A2	Dioxin-like PCBs (WHO-TEQ Fish)[6]	No limit applies	0.0001 - 0.0001							0.0001
A2	Dioxin-like PCBs (WHO-TEQ Birds)[6]	No limit applies	0.0071 - 0.0071							0.0016

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								Sampling	Analysis	
A2	Dioxins / furans (I-TEQ)[6]	0.1[10]	0.0692 - 0.0692	BS EN 1948	24.10.07	1154	1627	1296	1668	0.0142
A2	Dioxins / furans (WHO-TEQ Humans / Mammals) [6]	No limit applies	0.0773 - 0.0773							0.0158
A2	Dioxins / furans (WHO-TEQ Fish) [6]	No limit applies	0.0710 - 0.0710							0.0146
A2	Dioxins / furans (WHO-TEQ Birds)[6]	No limit applies	0.1241 - 0.1241							0.0255
A2	Poly-cyclic aromatic hydrocarbons (PAHs) Total	No limit applies	12.3	BS ISO 11338-1,2	25.10.07	0855	1010	1296	1668	12.3
A2	Naphthalene	No limit applies	10.2	BS ISO 11338-1,2	25.10.07	0855	1010	1296	1668	10.2
A2	Fluoranthene		0.14							0.14
A2	Benz(a)anthracene		0.14							0.14
A2	Chrysene		0.14							0.14
A2	Benzo(b) fluoranthene		0.14							0.14
A2	Benzo(k) fluoranthene		0.14							0.14
A2	Benzo(a)pyrene (BaP)		0.14							0.14
A2	Indeno(123-cd)pyrene		0.14							0.14
A2	Benzo(ghi)perylene		0.14							0.14
A2	Dibenzo(ah)anthracene		0.14							0.14
A2	Cyclopenta(cd)pyrene		0.14							0.14
A2	Anthanthrene		0.14							0.14
A2	Benzo(b)naph(2,1-d) thiophene		0.14							0.14
A2	Benzo(c)phenathrene		0.14							0.14
A2	Cholanthrene		0.14							0.14
A2	Dibenzo(a,i)pyrene		0.14							0.14