

APPENDIX C

SUPPORTING DATA FOR STACK EMISSION RATES

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Chemical emission rates for the reactivation facility stack were calculated by Focus Environmental, Inc. The emission rates were based on either stack exhaust measurements collected during the Performance Demonstration Test (PDT), proposed permit limits or, for a few chemicals that could be present in spent carbon but were not measured during the PDT, long-term average chemical feed rates and a conservative destruction and removal efficiency (DRE) of 99.99%. (Note that the DREs measured during the PDT averaged more than 99.997%).

The individual chemical-specific emission rates used in the risk assessment are summarized Table 4.2-1 in the main body of this report, along with an indication of the basis for each value. This appendix provides the detailed PDT results that were used by Focus to calculate the emission rates for those compounds with emission rates based on the stack test measurements. For compounds that were not detected in the PDT, the listed values were calculated using one-half of the reported detection limit consistent with the risk assessment Workplan. (Note that these tables differ from those in the PDT Report in that one-half the detection limit was used for non-detect results.)

Total Semivolatile and Nonvolatile Organic Emission Results - Run 1

Parameter	Units	Measured Value
Stack Sampling Parameters		
Net sampling time	minutes	240
Stack gas flow rate	dscfm	5,080
	acfm	11,370
	dscm/min	143.87
Stack gas temperature	°F	175
Stack gas velocity	ft/min	3,618
Stack gas sample volume	dscf	134.440
	dscm	3.807
Isokinetic	%	97.7
Stack gas moisture content	vol %	45.5
Stack gas carbon dioxide content	vol %, dry	6.4
Stack gas oxygen content	vol %, dry	9.8
Total Semivolatile Organics by TCO		
Total semivolatiles collected	ug	5320
TCO concentration	ug/dscm	1.40E+03
	ug/dscm @7% O ₂	1.75E+03
TCO emission rate	lb/h	2.66E-02
	kg/h	1.21E-02
	g/s	3.35E-03
Total Nonvolatile Organics by GRAV		
Total nonvolatiles collected	ug	3050
GRAV concentration	ug/dscm	8.01E+02
	ug/dscm @7% O ₂	1.00E+03
GRAV emission rate	lb/h	1.52E-02
	kg/h	6.92E-03
	g/s	1.92E-03

Note: dscf = Dry standard cubic feet
dscfm = Dry standard cubic feet per minute
acfm = Actual cubic feet per minute
dscm = Dry standard cubic meters

Standard conditions are 68°F, 29.92 in. Hg (20°C, 760 mm Hg)

Total Semivolatile and Nonvolatile Organic Emission Results - Run 2

Parameter	Units	Measured Value
Stack Sampling Parameters		
Net sampling time	minutes	240
Stack gas flow rate	dscfm	3,860
	acfm	8,610
	dscm/min	109.32
Stack gas temperature	°F	174
Stack gas velocity	ft/min	2,742
Stack gas sample volume	dscf	120.300
	dscm	3.407
Isokinetic	%	98.9
Stack gas moisture content	vol %	45.1
Stack gas carbon dioxide content	vol %, dry	7.2
Stack gas oxygen content	vol %, dry	8.9
Total Semivolatile Organics by TCO		
Total semivolatiles collected	ug	2830
TCO concentration	ug/dscm	8.31E+02
	ug/dscm @7% O ₂	9.61E+02
TCO emission rate	lb/h	1.20E-02
	kg/h	5.45E-03
	g/s	1.51E-03
Total Nonvolatile Organics by GRAV		
Total nonvolatiles collected	ug	2260
GRAV concentration	ug/dscm	6.63E+02
	ug/dscm @7% O ₂	7.68E+02
GRAV emission rate	lb/h	9.59E-03
	kg/h	4.35E-03
	g/s	1.21E-03

Note: dscf = Dry standard cubic feet
dscfm = Dry standard cubic feet per minute
acfm = Actual cubic feet per minute
dscm = Dry standard cubic meters

Standard conditions are 68°F, 29.92 in. Hg (20°C, 760 mm Hg)

Total Semivolatile and Nonvolatile Organic Emission Results - Run 3

Parameter	Units	Measured Value
Stack Sampling Parameters		
Net sampling time	minutes	240
Stack gas flow rate	dscfm	4,060
	acfm	8,890
	dscm/min	114.98
Stack gas temperature	°F	175
Stack gas velocity	ft/min	2,832
Stack gas sample volume	dscf	125.030
	dscm	3.541
Isokinetic	%	97.7
Stack gas moisture content	vol %	44.5
Stack gas carbon dioxide content	vol %, dry	7.1
Stack gas oxygen content	vol %, dry	9.3
Total Semivolatile Organics by TCO		
Total semivolatiles collected	ug	1924
TCO concentration	ug/dscm	5.43E+02
	ug/dscm @7% O ₂	6.50E+02
TCO emission rate	lb/h	8.26E-03
	kg/h	3.75E-03
	g/s	1.04E-03
Total Nonvolatile Organics by GRAV		
Total nonvolatiles collected	ug	2250
GRAV concentration	ug/dscm	6.35E+02
	ug/dscm @7% O ₂	7.60E+02
GRAV emission rate	lb/h	9.66E-03
	kg/h	4.38E-03
	g/s	1.22E-03

Note: dscf = Dry standard cubic feet
dscfm = Dry standard cubic feet per minute
acfm = Actual cubic feet per minute
dscm = Dry standard cubic meters

Standard conditions are 68°F, 29.92 in. Hg (20°C, 760 mm Hg)

Volatile Organic Emission Results - Run 1

Parameter	Units	Tube Set A	Tube Set B	Tube Set C	Tube Set D
Net sampling time	min	40	40	40	40
Corrected sample volume	liters, dry std.	19.651	19.521	18.94	18.963
Corrected sample volume	dscf	0.694	0.689	0.669	0.670
Corrected sample volume	dscm	0.0197	0.0195	0.0189	0.0190
Analyzed (Y/N)	-	N	Y	Y	Y
Total volume sampled	dscf	2.722			
Total volume sampled	dscm	0.0771			
Number of tube pairs analyzed	-	3			
Total condensate volume	ml	84			
Stack gas flow rate	acfm	10.770			
Stack gas flow rate	dscfm	4.870			

Mass VOC Compound (ug)									
VOST Compound	Tube Set A	Tube Set B	Tube Set C	Tube Set D	Condensate (ug/L)	Mass VOC Compound (ug)	Stack Conc. (a,c) (ug/dscm)	Mass Emission Rate (a,b,c) (lb/hr)	Mass Emission Rate (a,b,c) (g/s)
Standard Target Analytes									
Acetone	0	< 0.183 J.B	0.55 B	0.554 J.B	4.8 J	< 1.69E+00	< 2.76E+01	< 5.04E-04	< 6.35E-05
Acrylonitrile	0	< 0.152 ND	< 0.152 ND	< 0.152 ND	< 2.7 ND	< 6.83E-01 ND	< 1.08E+01	< 1.99E-04	< 2.50E-05
Benzene	0	0.0139 J	0.0552 J	< 0.0064 ND	< 0.1 ND	< 8.39E-02	< 1.42E+00	< 2.60E-05	< 3.27E-06
Bromodichloromethane	0	0.05	< 0.0246	< 0.0032 ND	2.2	< 2.63E-01	< 3.75E+00	< 6.85E-05	< 8.63E-06
Bromomethane	0	< 0.1366	0.115 J	< 0.0145 J	< 0.14 ND	< 2.78E-01	< 4.79E+00	< 8.73E-05	< 1.10E-05
Bromomethane	0	< 0.064 J.B	< 0.065 J.B	< 0.052 J.B	< 0.38 ND	< 2.13E-01	< 3.57E+00	< 6.51E-05	< 8.20E-06
2-Butanone	0	< 0.07 ND	< 0.07 ND	< 0.07 ND	< 0.75 ND	< 2.73E-01 ND	< 4.47E+00	< 8.16E-05	< 1.03E-05
Carbon Disulfide	0	0.0091 J	< 0.0087 J	< 0.0028 J	< 0.1 ND	< 2.90E-02	< 4.68E-01	< 8.53E-06	< 1.08E-06
Carbon Tetrachloride	0	0.0127 J	< 0.0045 J	< 0.0022 ND	< 0.12 ND	< 2.95E-02	< 4.69E-01	< 8.55E-06	< 1.08E-06
Chlorobenzene	0	5.818 E	3.556 E	0.0323 J	< 0.1 ND	< 9.41E+00	< 1.64E+02	< 2.99E-03	< 3.77E-04
Chlorodibromomethane	0	< 0.096	< 0.073	< 0.02 ND	1	< 2.73E-01	< 4.38E+00	< 7.99E-05	< 1.01E-05
Chloroethane	0	< 0.02 ND	< 0.02 ND	< 0.02 ND	< 0.24 ND	< 8.02E-02 ND	< 1.31E+00	< 2.38E-05	< 3.00E-06
Chloroform	0	0.023 J	0.0183 J	0.0542 J	6.1	6.08E-01	8.31E+00	1.52E-04	1.91E-05
Chloromethane	0	0.4087 J	< 0.5132	< 0.3032	< 0.12 ND	< 1.24E+00	< 2.15E+01	< 3.92E-04	< 4.93E-05
Dibromomethane	0	< 0.02 ND	< 0.02 ND	< 0.02 ND	< 0.21 ND	< 7.76E-02 ND	< 1.27E+00	< 2.32E-05	< 2.93E-06
Dichlorodifluoromethane	0	< 0.0131 J	< 0.015 J	< 0.195	< 0.15 ND	< 2.36E-01	< 4.05E+00	< 7.39E-05	< 9.31E-06
1,1-Dichloroethane	0	< 0.0038 ND	< 0.0038 ND	< 0.0038 ND	< 0.1 ND	< 1.98E-02 ND	< 3.08E-01	< 5.61E-06	< 7.07E-07
1,2-Dichloroethane	0	< 0.0044 ND	< 0.0044 ND	< 0.0044 ND	0.14 J	< 2.50E-02	< 3.82E-01	< 6.98E-06	< 8.79E-07
1,1-Dichloroethene	0	< 0.0046 ND	< 0.0046 ND	< 0.0046 ND	< 0.1 ND	< 2.22E-02 ND	< 3.49E-01	< 6.37E-06	< 8.03E-07
cis-1,2-Dichloroethene	0	< 0.005 ND	< 0.005 ND	< 0.0054 J	< 0.12 ND	< 2.55E-02	< 3.99E-01	< 7.28E-06	< 9.17E-07
trans-1,2-Dichloroethene	0	< 0.0034 ND	< 0.0034 ND	< 0.0034 ND	< 0.1 ND	< 1.86E-02 ND	< 2.87E-01	< 5.23E-06	< 6.59E-07
1,2-Dichloropropane	0	< 0.0054 ND	< 0.0054 ND	< 0.0054 ND	< 0.1 ND	< 2.46E-02 ND	< 3.91E-01	< 7.13E-06	< 8.99E-07
cis-1,3-Dichloropropene	0	< 0.006 ND	< 0.006 ND	< 0.006 ND	< 0.1 ND	< 2.64E-02 ND	< 4.22E-01	< 7.71E-06	< 9.71E-07
trans-1,3-Dichloropropene	0	< 0.004 ND	< 0.004 ND	< 0.004 ND	< 0.11 ND	< 2.12E-02 ND	< 3.29E-01	< 6.00E-06	< 7.56E-07
Ethylbenzene	0	< 0.0026 ND	< 0.0026 ND	< 0.0062 J	< 0.1 ND	< 1.98E-02	< 3.08E-01	< 5.61E-06	< 7.07E-07
2-Hexanone	0	< 0.0198 ND	< 0.0198 ND	< 0.0198 ND	< 0.76 ND	< 1.23E-01 ND	< 1.86E+00	< 3.40E-05	< 4.28E-06
Iodomethane	0	< 0.0156 J.B	< 0.0166 J.B	< 0.0166 J.B	< 0.12 ND	< 5.89E-02	< 9.81E-01	< 1.79E-05	< 2.25E-06
Methylene Chloride	0	0.084 J	< 0.039	0.146	2.3	< 4.62E-01	< 7.19E+00	< 1.31E-04	< 1.65E-05
4-Methyl-2-pentanone (MIBK)	0	< 0.047	< 0.028 ND	< 0.028 ND	< 0.4 ND	< 1.37E-01	< 2.23E+00	< 4.07E-05	< 5.13E-06
Styrene	0	< 0.0034 ND	< 0.0034 ND	< 0.0034 ND	< 0.1 ND	< 1.86E-02 ND	< 2.87E-01	< 5.23E-06	< 6.59E-07
1,1,2,2-Tetrachloroethane	0	< 0.022 ND	< 0.022 ND	< 0.022 ND	< 0.15 ND	< 7.86E-02 ND	< 1.31E+00	< 2.40E-05	< 3.02E-06
1,3-Dichlorobenzene	0	4.733 E	6.696	< 0.008 J	< 0.1 ND	< 5.45E+00	< 9.48E+01	< 1.73E-03	< 2.18E-04
Toluene	0	0.0847 J	0.0936 J	< 0.0302	0.19 J	< 2.24E-01	< 3.84E+00	< 7.00E-05	< 8.82E-06
1,1,1-Trichloroethane	0	< 0.0032 ND	< 0.0032 ND	< 0.0032 ND	< 0.1 ND	< 1.80E-02 ND	< 2.76E-01	< 5.04E-06	< 6.35E-07
1,1,2-Trichloroethane	0	< 0.01 ND	< 0.01 ND	< 0.01 ND	< 0.25 ND	< 5.10E-02 ND	< 7.95E-01	< 1.45E-05	< 1.83E-06
Trichloroethene	0	0.0231 J	0.02 J	0.043	0.57 J	1.34E-01	2.12E+00	3.87E-05	4.87E-06
Trichlorofluoromethane	0	< 0.0098 ND	< 0.0098 ND	0.052 J	< 0.12 ND	< 8.17E-02	< 1.38E+00	< 2.51E-05	< 3.17E-06
1,2,3-Trichloropropane	0	< 0.0162 ND	< 0.0162 ND	< 0.0162 ND	< 0.36 ND	< 7.88E-02 ND	< 1.24E+00	< 2.26E-05	< 2.85E-06
Vinyl Acetate	0	< 0.024 ND	< 0.024 ND	< 0.024 ND	< 0.24 ND	< 9.22E-02 ND	< 1.52E+00	< 2.76E-05	< 3.48E-06
Vinyl Chloride	0	< 0.0054 ND	< 0.0054 ND	< 0.0097 J	< 0.24 ND	< 4.27E-02	< 6.53E-01	< 1.19E-05	< 1.50E-06
Xylenes (total)	0	< 0.0097 J	< 0.0096 ND	< 0.0238 J	< 0.3 ND	< 6.83E-02	< 1.08E+00	< 1.97E-05	< 2.48E-06
Special Target Analytes									
Bromobenzene	0	< 0.0072 ND	< 0.0072 ND	< 0.0072 ND	< 0.11 ND	< 3.08E-02 ND	< 4.96E-01	< 9.05E-06	< 1.14E-06
Bromochloromethane	0	< 0.024 ND	< 0.024 ND	< 0.024 ND	< 0.24 ND	< 9.22E-02 ND	< 1.52E+00	< 2.76E-05	< 3.48E-06
n-Butylbenzene	0	< 0.0094 ND	< 0.0094 ND	< 0.0094 ND	< 0.1 ND	< 3.66E-02 ND	< 6.00E-01	< 1.09E-05	< 1.38E-06
sec-Butylbenzene	0	< 0.0072 ND	< 0.0072 ND	< 0.0072 ND	< 0.1 ND	< 3.00E-02 ND	< 4.85E-01	< 8.85E-06	< 1.12E-06
tert-Butylbenzene	0	< 0.006 ND	< 0.006 ND	< 0.006 ND	< 0.24 ND	< 3.82E-02 ND	< 5.75E-01	< 1.05E-05	< 1.32E-06
2-Chlorotoluene	0	< 0.0046 ND	< 0.0046 ND	< 0.0046 ND	< 0.24 ND	< 3.40E-02 ND	< 5.02E-01	< 9.16E-06	< 1.15E-06
4-Chlorotoluene	0	< 0.004 ND	< 0.004 ND	< 0.004 ND	< 0.21 ND	< 2.96E-02 ND	< 4.38E-01	< 7.99E-06	< 1.01E-06
1,2-Dibromo-3-chloropropane	0	< 0.04 ND	< 0.04 ND	< 0.04 ND	< 0.45 ND	< 1.58E-01 ND	< 2.58E+00	< 4.71E-05	< 5.93E-06
1,2-Dibromomethane	0	< 0.02 ND	< 0.02 ND	< 0.02 ND	< 0.24 ND	< 8.02E-02 ND	< 1.31E+00	< 2.38E-05	< 3.00E-06
1,2-Dichlorobenzene	0	< 0.006 ND	< 0.006 ND	< 0.006 ND	< 0.1 ND	< 2.64E-02 ND	< 4.22E-01	< 7.71E-06	< 9.71E-07
1,3-Dichlorobenzene	0	< 0.0062 ND	< 0.0062 ND	< 0.0062 ND	< 0.1 ND	< 2.70E-02 ND	< 4.33E-01	< 7.90E-06	< 9.95E-07
1,4-Dichlorobenzene	0	< 0.0086 ND	< 0.0086 ND	< 0.0086 ND	< 0.12 ND	< 3.59E-02 ND	< 5.80E-01	< 1.06E-05	< 1.33E-06
1,3-Dichloropropane	0	< 0.0036 ND	< 0.0036 ND	< 0.0036 ND	< 0.17 ND	< 2.51E-02 ND	< 3.73E-01	< 6.81E-06	< 8.58E-07
2,2-Dichloropropane	0	< 0.003 ND	< 0.003 ND	< 0.003 ND	< 0.11 ND	< 1.82E-02 ND	< 2.77E-01	< 5.05E-06	< 6.36E-07
1,1-Dichloropropene	0	< 0.002 ND	< 0.002 ND	< 0.002 ND	< 0.1 ND	< 1.44E-02 ND	< 2.13E-01	< 3.89E-06	< 4.91E-07
Hexachlorobutadiene	0	< 0.0096 ND	< 0.0096 ND	< 0.0096 ND	< 0.12 ND	< 3.89E-02 ND	< 6.32E-01	< 1.15E-05	< 1.45E-06
Isopropyl benzene	0	< 0.0046 ND	< 0.0046 ND	< 0.0046 ND	< 0.1 ND	< 2.22E-02 ND	< 3.49E-01	< 6.37E-06	< 8.03E-07
p-Isopropyltoluene	0	< 0.0076 ND	< 0.0076 ND	< 0.0076 ND	< 0.1 ND	< 3.12E-02 ND	< 5.06E-01	< 9.23E-06	< 1.16E-06
Naphthalene	0	< 0.02 ND	< 0.02 ND	< 0.021 J	< 0.17 ND	< 7.53E-02	< 1.25E+00	< 2.28E-05	< 2.87E-06
n-Propylbenzene	0	< 0.0058 ND	< 0.0058 ND	< 0.0058 ND	< 0.1 ND	< 2.58E-02 ND	< 4.12E-01	< 7.52E-06	< 9.47E-07
1,1,1,2-Tetrachloroethane	0	< 0.0038 J	< 0.002 ND	< 0.002 ND	< 0.12 ND	< 1.79E-02	< 2.67E-01	< 4.96E-06	< 6.13E-07
Tetrahydrofuran	0	< 0.062 ND	0.062 ND	< 0.062 ND	1.2 ND	< 2.87E-01 ND	< 4.55E+00	< 8.30E-05	< 1.05E-05
1,2,3-Trichlorobenzene	0	< 0.028 ND	< 0.028 ND	< 0.028 ND	< 0.23 ND	< 1.03E-01 ND	< 1.71E+00	< 3.13E-05	< 3.94E-06
1,2,4-Trichlorobenzene	0	< 0.006 ND	< 0.006 ND	< 0.006 ND	< 0.15 ND	< 3.06E-02 ND	< 4.77E-01	< 8.70E-06	< 1.10E-06
1,1,2-Trichloro-1,2,2-trifluoroethane	0	< 0.0036 ND	< 0.0036 ND	< 0.0036 ND	< 0.13 ND	< 2.17E-02 ND	< 3.30E-01	< 6.02E-06	< 7.58E-07
1,2,4-Trimethylbenzene	0	< 0.0096 ND	< 0.0096 ND	< 0.0096 ND	< 0.11 ND	< 3.80E-02 ND	< 6.21E-01	< 1.13E-05	< 1.43E-06
1,3,5-Trimethylbenzene	0	< 0.0056 ND	< 0.0056 ND	< 0.0056 ND	< 0.1 ND	< 2.52E-02 ND	< 4.02E-01	< 7.33E-06	< 9.23E-07
m- & p-Xylene	0	< 0.0083 J	< 0.008 J	< 0.0184 J	< 0.2 ND	< 5.15E-02	< 8.22E-01	< 1.50E-05	< 1.89E-06
o-Xylene	0	< 0.0034 ND	< 0.0034 ND	< 0.0053 J	< 0.14 ND	< 2.39E-02	< 3.63E-01	< 6.63E-06	< 8.35E-07
	0	0	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tentatively Identified Compounds (TICs)									
Unknown	0	0.068 NJ	0.051 NJ	0	0	1.19E-01	2.07E+00	3.78E-05	4.76E-06
Benzaldehyde	0	0	0.087 NJ	0.078 NJ	0	1.65E-01	2.87E+00	5.24E-05	6.60E-06

(a) Stack gas sample volume 2.0277 dry std cubic feet
(analyzed tubes only) 0.0574 dry std cubic meters

(b) Stack gas flow rate 10770 actual cubic feet per minute
5.0835 actual cubic meters per second
4870 dry std cubic feet per minute
2.2987 dry std cubic meters per second

(c) For non-detects, stack concentrations and emissions are calculated using one half of the detection limit.

ND = Not Detected B=present in blank, J=estimated - below quantitation limit
NA = Not Analyzed E=estimated - above calibration range, SAT=saturated

Volatile Organic Emission Results - Run 2

Parameter	Units	Tube Set A	Tube Set B	Tube Set C	Tube Set D
Net sampling time	min	40	40	40	40
Corrected sample volume	liters, dry std.	19.453	20.223	19.371	19.371
Corrected sample volume	dscf	0.687	0.714	0.684	0.684
Corrected sample volume	dscm	0.0195	0.0202	0.0194	0.0194
Analyzed (Y/N)	-	N	Y	Y	Y
Total volume sampled	dscf	2.769			
Total volume sampled	dscm	0.0784			
Number of tube pairs analyzed	-	3			
Total condensate volume	ml	84			
Stack gas flow rate	acfm	8.580			
Stack gas flow rate	dscfm	3.880			

VOST Compound	Mass VOC Compound (ug)					Mass VOC Compound (ug)	Stack Conc. (a,c) (ug/dscm)	Mass Emission Rate (a,b,c) (lb/hr)	Mass Emission Rate (a,b,c) (g/s)
	Tube Set A	Tube Set B	Tube Set C	Tube Set D	Condensate (ug/L)				
Standard Target Analytes									
Acetone	0	0.697 J.B	0.56 B	0.444 J.B	4.7 J	2.10E+00	3.39E+01	4.92E-04	6.21E-05
Acrylonitrile	0	< 0.152 ND	< 0.152 ND	< 0.152 ND	< 2.7 ND	< 6.83E-01 ND	< 1.05E+01	< 1.54E-04	< 1.95E-05
Benzene	0	< 0.0094 J	< 0.0126 J	< 0.0312	< 0.1 ND	< 6.16E-02	< 1.01E+00	< 1.47E-05	< 1.85E-06
Bromodichloromethane	0	< 0.0416	< 0.0346	< 0.0406	< 0.1 ND	< 1.25E-01	< 2.09E+00	< 3.03E-05	< 3.82E-06
Bromofom	0	< 0.1766	< 0.1466	0.194 J	< 0.14 ND	< 5.29E-01	< 8.92E+00	< 1.30E-04	< 1.63E-05
Bromomethane	0	< 0.05 J.B	< 0.052 J.B	< 0.046 J.B	< 0.38 ND	< 1.80E-01	< 2.92E+00	< 4.24E-05	< 5.34E-06
2-Butanone	0	< 0.07 ND	< 0.07 ND	< 0.07 ND	< 0.75 ND	< 2.73E-01 ND	< 4.36E+00	< 6.34E-05	< 7.99E-06
Carbon Disulfide	0	< 0.0106 J	< 0.009 J	0.0171 J	< 0.1 ND	< 4.51E-02	< 7.30E-01	< 1.06E-05	< 1.34E-06
Carbon Tetrachloride	0	< 0.006 J	< 0.0056 J	< 0.006 J	< 0.12 ND	< 2.77E-02	< 4.27E-01	< 6.21E-06	< 7.82E-07
Chlorobenzene	0	1.6028 J	< 0.6513	2.012	< 0.1 ND	< 4.27E+00	< 7.25E+01	< 1.05E-03	< 1.33E-04
Chlorodibromomethane	0	< 0.13	< 0.106	0.131 J	< 0.2 ND	< 3.84E-01	< 6.44E+00	< 9.36E-05	< 1.18E-05
Chloroethane	0	< 0.02 ND	< 0.02 ND	< 0.02 ND	< 0.24 ND	< 8.02E-02 ND	< 1.27E+00	< 1.85E-05	< 2.33E-06
Chloroform	0	0.0349 J	< 0.0239	< 0.0289	< 0.1 ND	< 9.61E-02	< 1.59E+00	< 2.32E-05	< 2.92E-06
Chloromethane	0	< 0.0642	< 0.3232	< 0.0212 J	< 0.12 ND	< 4.19E-01	< 7.06E+00	< 1.03E-04	< 1.29E-05
Dibromomethane	0	< 0.02 ND	< 0.02 ND	< 0.02 ND	< 0.21 ND	< 7.76E-02 ND	< 1.24E+00	< 1.81E-05	< 2.28E-06
Dichlorodifluoromethane	0	< 0.023 J	< 0.0113 J	< 0.015 J	< 0.15 ND	< 6.19E-02	< 9.97E-01	< 1.45E-05	< 1.83E-06
1,1-Dichloroethane	0	< 0.0038 ND	< 0.0038 ND	< 0.0038 ND	< 0.1 ND	< 1.98E-02 ND	< 3.00E-01	< 4.37E-06	< 5.50E-07
1,2-Dichloroethane	0	< 0.0044 ND	< 0.0044 ND	< 0.0044 ND	0.12 J	< 2.33E-02	< 3.52E-01	< 5.12E-06	< 6.45E-07
1,1-Dichloroethene	0	< 0.0046 ND	< 0.0046 ND	< 0.0046 ND	< 0.1 ND	< 2.22E-02 ND	< 3.41E-01	< 4.96E-06	< 6.25E-07
cis-1,2-Dichloroethene	0	< 0.005 ND	< 0.005 ND	< 0.005 ND	< 0.12 ND	< 2.51E-02 ND	< 3.83E-01	< 5.57E-06	< 7.01E-07
trans-1,2-Dichloroethene	0	< 0.0034 ND	< 0.0034 ND	< 0.0034 ND	< 0.1 ND	< 1.86E-02 ND	< 2.80E-01	< 4.07E-06	< 5.13E-07
1,2-Dichloropropane	0	< 0.0054 ND	< 0.0054 ND	< 0.0054 ND	< 0.1 ND	< 2.46E-02 ND	< 3.82E-01	< 5.55E-06	< 6.99E-07
cis-1,3-Dichloropropene	0	< 0.006 ND	< 0.006 ND	< 0.006 ND	< 0.1 ND	< 2.64E-02 ND	< 4.12E-01	< 5.99E-06	< 7.55E-07
trans-1,3-Dichloropropene	0	< 0.004 ND	< 0.004 ND	< 0.004 ND	< 0.11 ND	< 2.12E-02 ND	< 3.21E-01	< 4.67E-06	< 5.88E-07
Ethylbenzene	0	< 0.0028 ND	< 0.0026 ND	< 0.0026 ND	< 0.1 ND	< 1.62E-02 ND	< 2.39E-01	< 3.48E-06	< 4.39E-07
2-Hexanone	0	< 0.0198 ND	< 0.0198 ND	< 0.0198 ND	< 0.76 ND	< 1.23E-01 ND	< 1.82E+00	< 2.65E-05	< 3.34E-06
Iodomethane	0	< 0.0156 J.B	< 0.0166 J.B	< 0.0156 J.B	< 1.12 ND	< 5.79E-02	< 9.39E-01	< 1.37E-05	< 1.72E-06
Methylene Chloride	0	0.059 J	< 0.026 ND	< 0.026 ND	1.1 J	< 2.03E-01	< 3.06E+00	< 4.45E-05	< 5.61E-06
4-Methyl-2-pentanone (MIBK)	0	< 0.028 ND	< 0.028 ND	< 0.028 ND	< 0.4 ND	< 1.18E-01 ND	< 1.85E+00	< 2.69E-05	< 3.39E-06
Styrene	0	< 0.0034 ND	< 0.0034 ND	< 0.0034 ND	< 0.1 ND	< 1.86E-02 ND	< 2.80E-01	< 4.07E-06	< 5.13E-07
1,1,2,2-Tetrachloroethane	0	< 0.022 ND	< 0.022 ND	< 0.022 ND	< 0.15 ND	< 7.86E-02 ND	< 1.28E+00	< 1.86E-05	< 2.34E-06
Tetrachloroethene	0	< 0.2321	< 0.0891	< 0.1421	< 0.1 ND	< 4.72E-01	< 7.96E+00	< 1.16E-04	< 1.46E-05
Toluene	0	1.1734 J	0.0158 J	< 0.0232	0.15 J	< 2.25E-01	< 3.76E+00	< 5.47E-05	< 6.89E-06
1,1,1-Trichloroethane	0	< 0.0032 ND	< 0.0032 ND	< 0.0032 ND	< 0.1 ND	< 1.80E-02 ND	< 2.70E-01	< 3.92E-06	< 4.94E-07
1,1,2-Trichloroethane	0	< 0.01 ND	< 0.01 ND	< 0.01 ND	< 0.25 ND	< 5.10E-02 ND	< 7.77E-01	< 1.13E-05	< 1.42E-06
Trichloroethene	0	0.0146 J	< 0.016	0.0135 J	< 0.1 ND	< 5.25E-02	< 8.55E-01	< 1.24E-05	< 1.57E-06
Trichlorofluoromethane	0	< 0.0098 ND	< 0.0098 ND	< 0.0098 ND	< 0.12 ND	< 3.95E-02 ND	< 6.27E-01	< 9.12E-06	< 1.15E-06
1,2,3-Trichloropropane	0	< 0.0162 ND	< 0.0162 ND	< 0.0162 ND	< 0.36 ND	< 7.88E-02 ND	< 1.21E+00	< 1.76E-05	< 2.22E-06
Vinyl Acetate	0	< 0.024 ND	< 0.024 ND	< 0.024 ND	< 0.24 ND	< 9.22E-02 ND	< 1.48E+00	< 2.15E-05	< 2.71E-06
Vinyl Chloride	0	< 0.0054 ND	< 0.0054 ND	< 0.0054 ND	< 0.24 ND	< 3.94E-02 ND	< 5.83E-01	< 8.47E-06	< 1.07E-05
Xylenes (total)	0	< 0.0121 J	< 0.0102 J	< 0.0116 J	< 0.3 ND	< 5.91E-02	< 8.96E-01	< 1.30E-05	< 1.64E-06
Special Target Analytes									
Bromobenzene	0	< 0.0072 ND	< 0.0072 ND	< 0.0072 ND	< 0.11 ND	< 3.08E-02 ND	< 4.84E-01	< 7.04E-06	< 8.87E-07
Bromochloromethane	0	< 0.024 ND	< 0.024 ND	< 0.024 ND	< 0.24 ND	< 9.22E-02 ND	< 1.48E+00	< 2.15E-05	< 2.71E-06
n-Butylbenzene	0	< 0.0094 ND	< 0.0094 ND	< 0.0094 ND	< 0.1 ND	< 3.66E-02 ND	< 5.85E-01	< 8.51E-06	< 1.07E-06
sec-Butylbenzene	0	< 0.0072 ND	< 0.0072 ND	< 0.0072 ND	< 0.1 ND	< 3.00E-02 ND	< 4.73E-01	< 6.88E-06	< 8.67E-07
tert-Butylbenzene	0	< 0.006 ND	< 0.006 ND	< 0.006 ND	< 0.24 ND	< 3.82E-02 ND	< 5.62E-01	< 8.17E-06	< 1.03E-06
2-Chlorotoluene	0	< 0.0046 ND	< 0.0046 ND	< 0.0046 ND	< 0.24 ND	< 3.40E-02 ND	< 4.91E-01	< 7.14E-06	< 8.99E-07
4-Chlorotoluene	0	< 0.004 ND	< 0.004 ND	< 0.004 ND	< 0.21 ND	< 2.96E-02 ND	< 4.28E-01	< 6.23E-06	< 7.85E-07
1,2-Dibromo-3-chloropropane	0	< 0.04 ND	< 0.04 ND	< 0.04 ND	< 0.45 ND	< 1.58E-01 ND	< 2.52E+00	< 3.66E-05	< 4.61E-06
1,2-Dibromoethane	0	< 0.02 ND	< 0.02 ND	< 0.02 ND	< 0.24 ND	< 8.02E-02 ND	< 1.27E+00	< 1.85E-05	< 2.33E-06
1,2-Dichlorobenzene	0	< 0.006 ND	< 0.006 ND	< 0.006 ND	< 0.1 ND	< 2.64E-02 ND	< 4.12E-01	< 5.99E-06	< 7.55E-07
1,3-Dichlorobenzene	0	< 0.0062 ND	< 0.0062 ND	< 0.0062 ND	< 0.1 ND	< 2.70E-02 ND	< 4.23E-01	< 6.14E-06	< 7.74E-07
1,4-Dichlorobenzene	0	< 0.0086 ND	< 0.0086 ND	< 0.0086 ND	< 0.12 ND	< 3.59E-02 ND	< 5.66E-01	< 8.23E-06	< 1.04E-06
1,3-Dichloropropane	0	< 0.0036 ND	< 0.0036 ND	< 0.0036 ND	< 0.17 ND	< 2.51E-02 ND	< 3.65E-01	< 5.31E-06	< 6.69E-07
2,2-Dichloropropane	0	< 0.003 ND	< 0.003 ND	< 0.003 ND	< 0.11 ND	< 1.82E-02 ND	< 2.70E-01	< 3.93E-06	< 4.95E-07
1,1-Dichloropropene	0	< 0.002 ND	< 0.002 ND	< 0.002 ND	< 0.1 ND	< 1.44E-02 ND	< 2.09E-01	< 3.04E-06	< 3.83E-07
Hexachlorobutadiene	0	< 0.0096 ND	< 0.0096 ND	< 0.0096 ND	< 0.12 ND	< 3.89E-02 ND	< 6.17E-01	< 8.97E-06	< 1.13E-06
Isopropyl benzene	0	< 0.0046 ND	< 0.0046 ND	< 0.0046 J	< 0.1 ND	< 2.22E-02	< 3.41E-01	< 4.96E-06	< 6.25E-07
p-Isopropyltoluene	0	< 0.0076 ND	< 0.0076 ND	< 0.0076 ND	< 0.1 ND	< 3.12E-02 ND	< 4.94E-01	< 7.18E-06	< 9.04E-07
Naphthalene	0	< 0.02 ND	< 0.028 J	< 0.02 J	< 0.17 ND	< 8.23E-02	< 1.34E+00	< 1.94E-05	< 2.45E-06
n-Propylbenzene	0	< 0.0058 ND	< 0.0058 ND	< 0.0058 ND	< 0.1 ND	< 2.58E-02 ND	< 4.02E-01	< 5.85E-06	< 7.37E-07
1,1,1,2-Tetrachloroethane	0	< 0.002 ND	< 0.002 ND	< 0.002 ND	< 0.12 ND	< 1.61E-02 ND	< 2.30E-01	< 3.35E-06	< 4.22E-07
Tetrahydrofuran	0	< 0.062 ND	< 0.062 ND	< 0.062 ND	< 1.2 ND	< 2.87E-01 ND	< 4.44E+00	< 6.45E-05	< 8.13E-06
1,2,3-Trichlorobenzene	0	< 0.028 ND	< 0.028 ND	< 0.028 ND	< 0.23 ND	< 1.03E-01 ND	< 1.67E+00	< 2.43E-05	< 3.06E-06
1,2,4-Trichlorobenzene	0	< 0.006 ND	< 0.006 ND	< 0.006 ND	< 0.15 ND	< 3.06E-02 ND	< 4.66E-01	< 6.77E-06	< 8.53E-07
1,1,2-Trichloro-1,2,2-trifluoroethane	0	< 0.0036 ND	< 0.0036 ND	< 0.0036 ND	< 0.13 ND	< 2.17E-02 ND	< 3.22E-01	< 4.69E-06	< 5.90E-07
1,2,4-Trimethylbenzene	0	< 0.0096 ND	< 0.0096 ND	< 0.0096 ND	< 0.11 ND	< 3.80E-02 ND	< 6.06E-01	< 8.81E-06	< 1.11E-06
1,3,5-Trimethylbenzene	0	< 0.0056 ND	< 0.0056 ND	< 0.0056 ND	< 0.1 ND	< 2.52E-02 ND	< 3.92E-01	< 5.70E-06	< 7.18E-07
m- & p-Xylene	0	< 0.0107 J	< 0.0088 J	< 0.0102 J	< 0.2 ND	< 4.65E-02	< 7.18E-01	< 1.04E-05	< 1.31E-06
o-Xylene	0	< 0.0034 ND	< 0.0034 ND	< 0.0034 ND	< 0.14 ND	< 2.20E-02 ND	< 3.23E-01	< 4.69E-06	< 5.91E-07
	0	0	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tentatively Identified Compounds (TICs)									
Benzaldehyde	0	0	0.04 NJ	0	0	4.00E-02	6.78E-01	9.86E-06	1.24E-06

(a) Stack gas sample volume 2.0921 dry std cubic feet
(analyzed tubes only) 0.059 dry std cubic meters

(b) Stack gas flow rate 8580 actual cubic feet per minute
4.0498 actual cubic meters per second
3880 dry std cubic feet per minute
1.8314 dry std cubic meters per second

(c) For non-detects, stack concentrations and emissions are calculated using one half of the detection limit.

ND = Not Detected B=present in blank, J=estimated - below quantation limit
NA = Not Analyzed E=estimated - above calibration range, SAT=saturated

Volatile Organic Emission Results - Run 3

Parameter	Units	Tube Set A	Tube Set B	Tube Set C	Tube Set D
Net sampling time	min	40	40	40	40
Corrected sample volume	liters, dry std.	20.121	18.453	18.3	18.453
Corrected sample volume	dscf	0.711	0.652	0.646	0.652
Corrected sample volume	dscm	0.0201	0.0185	0.0183	0.0185
Analyzed (Y/N)	-	Y	Y	Y	Y
Total volume sampled	dscf	2.660			
Total volume sampled	dscm	0.0753			
Number of tube pairs analyzed	-	4			
Total condensate volume	ml	84			
Stack gas flow rate	acfm	8.850			
Stack gas flow rate	dscfm	4.080			

VOST Compound	Mass VOC Compound (ug)					Mass VOC Compound (ug)	Stack Conc. (a,c) (ug/dscm)	Mass Emission Rate (a,b,c) (lb/hr)	Mass Emission Rate (a,b,c) (g/s)
	Tube Set A	Tube Set B	Tube Set C	Tube Set D	Condensate (ug/L)				
Standard Target Analytes									
Acetone	< 0.245	0.56 B	0.64 B	0.458 J.B	5.9 J	< 2.40E+00	< 3.18E+01	< 4.87E-04	< 6.13E-05
Acrylonitrile	< 0.152 ND	< 0.152 ND	< 0.152 ND	< 0.152 ND	< 2.7 ND	< 8.35E-01 ND	< 1.11E+01	< 1.69E-04	< 2.13E-05
Benzene	0.0135 J	< 0.0115 J	< 0.0086 J	< 0.0101 J	< 0.1 ND	< 5.21E-02	< 6.92E-01	< 1.06E-05	< 1.33E-06
Bromodichloromethane	< 0.0396	< 0.0426	< 0.0376	< 0.0416	< 0.1 ND	< 1.70E-01	< 2.25E+00	< 3.45E-05	< 4.34E-06
Bromofom	< 0.1266	< 0.1666	< 0.1566	< 0.1366	< 0.14 ND	< 5.98E-01	< 7.94E+00	< 1.21E-04	< 1.53E-05
Bromomethane	< 0.044 ND	< 0.047 J.B	< 0.048 J.B	< 0.049 J.B	< 0.38 ND	< 2.20E-01	< 2.92E+00	< 4.46E-05	< 5.62E-06
2-Butanone	< 0.07 ND	< 0.07 ND	< 0.07 ND	< 0.07 ND	< 0.75 ND	< 3.43E-01 ND	< 4.55E+00	< 6.96E-05	< 8.77E-06
Carbon Disulfide	0.0124 J	0.0151 J	0.0128 J	0.0187 J	< 0.1 ND	< 6.74E-02	< 8.95E-01	< 1.37E-05	< 1.72E-06
Carbon Tetrachloride	< 0.0049 J	< 0.005 J	< 0.0042 J	< 0.0048 J	< 0.12 ND	< 2.90E-02	< 3.85E-01	< 5.88E-06	< 7.41E-07
Chlorobenzene	2.349 E	3.409 E.J	3.048 E.J	1.4077 J	< 0.1 ND	< 1.03E+01	< 1.36E+02	< 2.09E-03	< 2.63E-04
Chlorodibromomethane	< 0.11	< 0.13	< 0.11	0.121 J	< 0.2 ND	< 4.88E-01	< 6.48E+00	< 9.90E-05	< 1.25E-05
Chloroethane	< 0.02 ND	< 0.02 ND	< 0.02 ND	< 0.02 ND	< 0.24 ND	< 1.00E-01 ND	< 1.33E+00	< 2.03E-05	< 2.56E-06
Chloroform	< 0.0289	< 0.0299	0.0244 J	< 0.0269	< 0.1 ND	< 1.19E-01	< 1.57E+00	< 2.40E-05	< 3.03E-06
Chloromethane	< 0.2532	< 0.0862	< 0.0242 J	< 0.0542	< 0.12 ND	< 4.28E-01	< 5.68E+00	< 8.68E-05	< 1.09E-05
Dibromomethane	< 0.02 ND	< 0.02 ND	< 0.02 ND	< 0.02 ND	< 0.21 ND	< 9.76E-02 ND	< 1.30E+00	< 1.98E-05	< 2.50E-06
Dichlorodifluoromethane	< 0.0127 J	< 0.0126 J	< 0.0114 J	< 0.0149 J	< 0.15 ND	< 6.42E-02	< 8.52E-01	< 1.30E-05	< 1.64E-06
1,1-Dichloroethane	< 0.0038 ND	< 0.0038 ND	< 0.0038 ND	< 0.0038 ND	< 0.1 ND	< 2.36E-02 ND	< 3.13E-01	< 4.79E-06	< 6.03E-07
1,2-Dichloroethane	< 0.0044 ND	< 0.0044 ND	< 0.0044 ND	< 0.0044 ND	0.11 J	< 2.68E-02	< 3.56E-01	< 5.45E-06	< 6.86E-07
cis-1,2-Dichloroethene	< 0.0046 ND	< 0.0046 ND	< 0.0046 ND	< 0.0046 ND	< 0.1 ND	< 2.68E-02 ND	< 3.56E-01	< 5.44E-06	< 6.85E-07
trans-1,2-Dichloroethene	< 0.005 ND	< 0.005 ND	< 0.005 ND	< 0.005 ND	< 0.12 ND	< 3.01E-02 ND	< 3.99E-01	< 6.10E-06	< 7.69E-07
trans-1,2-Dichloropropane	< 0.0034 ND	< 0.0034 ND	< 0.0034 ND	< 0.0034 ND	< 0.1 ND	< 2.20E-02 ND	< 2.92E-01	< 4.46E-06	< 5.62E-07
1,2-Dichloropropane	< 0.0054 ND	< 0.0054 ND	< 0.0054 ND	< 0.0054 ND	< 0.1 ND	< 3.00E-02 ND	< 3.98E-01	< 6.09E-06	< 7.67E-07
cis-1,3-Dichloropropene	< 0.006 ND	< 0.006 ND	< 0.006 ND	< 0.006 ND	< 0.1 ND	< 3.24E-02 ND	< 4.30E-01	< 6.57E-06	< 8.28E-07
trans-1,3-Dichloropropene	< 0.004 ND	< 0.004 ND	< 0.004 ND	< 0.004 ND	< 0.11 ND	< 2.52E-02 ND	< 3.35E-01	< 5.12E-06	< 6.45E-07
Ethylbenzene	< 0.0031 J	< 0.0026 ND	< 0.0026 ND	< 0.0026 ND	< 0.1 ND	< 1.93E-02	< 2.56E-01	< 3.92E-06	< 4.93E-07
2-Hexanone	< 0.0198 ND	< 0.0198 ND	< 0.0198 ND	< 0.0198 ND	< 0.76 ND	< 1.43E-01 ND	< 1.90E+00	< 2.90E-05	< 3.66E-06
Iodomethane	< 0.0032 ND	< 0.0156 J.B	< 0.0156 J.B	< 0.0156 J.B	0.56 J.B	< 9.70E-02	< 1.29E+00	< 1.97E-05	< 2.48E-06
Methylene Chloride	0.183 J	0.48	0.161	0.295	1.2 J	1.22E+00	1.62E+01	2.47E-04	3.12E-05
4-Methyl-2-pentanone (MIBK)	< 0.028 ND	< 0.028 ND	< 0.028 ND	< 0.028 ND	< 0.4 ND	< 1.46E-01 ND	< 1.93E+00	< 2.95E-05	< 3.72E-06
Styrene	< 0.0034 ND	< 0.0034 ND	< 0.0034 ND	< 0.0034 ND	< 0.1 ND	< 2.20E-02 ND	< 2.92E-01	< 4.46E-06	< 5.62E-07
1,1,2,2-Tetrachloroethane	< 0.022 ND	< 0.022 ND	< 0.022 ND	< 0.022 ND	< 0.15 ND	< 1.01E-01 ND	< 1.34E+00	< 2.04E-05	< 2.57E-06
Tetrachloroethene	0.232 J	< 2.4021 E	1.1097 J	0.3624 J	< 0.1 ND	< 4.12E+00	< 5.46E+01	< 8.35E-04	< 1.05E-04
Toluene	0.072 J	0.3743 J	0.1233 J	0.1925 J	0.12 J	7.72E-01	1.03E+01	1.57E-04	1.97E-05
1,1,1-Trichloroethane	< 0.0032 ND	< 0.0032 ND	< 0.0032 ND	< 0.0032 ND	< 0.1 ND	< 2.12E-02 ND	< 2.81E-01	< 4.30E-06	< 5.42E-07
1,1,2-Trichloroethane	< 0.01 ND	< 0.01 ND	< 0.01 ND	< 0.01 ND	< 0.25 ND	< 6.10E-02 ND	< 8.10E-01	< 1.24E-05	< 1.56E-06
Trichloroethene	0.0189 J	0.0217 J	< 0.0122 J	< 0.0117 J	< 0.1 ND	< 7.29E-02	< 9.68E-01	< 1.48E-05	< 1.86E-06
Trichlorofluoromethane	< 0.0098 ND	< 0.0098 ND	< 0.0098 ND	< 0.0098 ND	< 0.12 ND	< 4.93E-02 ND	< 6.54E-01	< 1.00E-05	< 1.26E-06
1,2,3-Trichloropropane	< 0.0162 ND	< 0.0162 ND	< 0.0162 ND	< 0.0162 ND	< 0.36 ND	< 9.50E-02 ND	< 1.26E+00	< 1.93E-05	< 2.43E-06
Vinyl Acetate	< 0.024 ND	< 0.024 ND	< 0.024 ND	< 0.024 ND	< 0.24 ND	< 1.16E-01 ND	< 1.54E+00	< 2.36E-05	< 2.97E-06
Vinyl Chloride	< 0.0064 ND	< 0.0064 ND	< 0.0064 ND	< 0.0064 ND	< 0.24 ND	< 4.58E-02 ND	< 6.07E-01	< 9.28E-06	< 1.17E-06
Xylenes (total)	< 0.0148 J	< 0.0113 J	< 0.0109 J	< 0.0097 J	< 0.3 ND	< 7.19E-02	< 9.54E-01	< 1.46E-05	< 1.84E-06
Special Target Analytes									
Bromobenzene	< 0.0072 ND	< 0.0072 ND	< 0.0072 ND	< 0.0072 ND	< 0.11 ND	< 3.80E-02 ND	< 5.05E-01	< 7.72E-06	< 9.72E-07
Bromochloromethane	< 0.024 ND	< 0.024 ND	< 0.024 ND	< 0.024 ND	< 0.24 ND	< 1.16E-01 ND	< 1.54E+00	< 2.36E-05	< 2.97E-06
n-Butylbenzene	< 0.0094 ND	< 0.0094 ND	< 0.0094 ND	< 0.0094 ND	< 0.1 ND	< 4.60E-02 ND	< 6.11E-01	< 9.33E-06	< 1.18E-06
sec-Butylbenzene	< 0.0072 ND	< 0.0072 ND	< 0.0072 ND	< 0.0072 ND	< 0.1 ND	< 3.72E-02 ND	< 4.94E-01	< 7.55E-06	< 9.51E-07
tert-Butylbenzene	< 0.006 ND	< 0.006 ND	< 0.006 ND	< 0.006 ND	< 0.24 ND	< 4.42E-02 ND	< 5.86E-01	< 8.96E-06	< 1.13E-06
2-Chlorotoluene	< 0.0046 ND	< 0.0046 ND	< 0.0046 ND	< 0.0046 ND	< 0.24 ND	< 3.86E-02 ND	< 5.12E-01	< 7.82E-06	< 9.96E-07
4-Chlorotoluene	< 0.004 ND	< 0.004 ND	< 0.004 ND	< 0.004 ND	< 0.21 ND	< 3.36E-02 ND	< 4.47E-01	< 6.83E-06	< 8.60E-07
1,2-Dibromo-3-chloropropane	< 0.04 ND	< 0.04 ND	< 0.04 ND	< 0.04 ND	< 0.45 ND	< 1.98E-01 ND	< 2.63E+00	< 4.01E-05	< 5.06E-06
1,2-Dibromethane	< 0.02 ND	< 0.02 ND	< 0.02 ND	< 0.02 ND	< 0.24 ND	< 1.00E-01 ND	< 1.33E+00	< 2.03E-05	< 2.56E-06
1,2-Dichlorobenzene	< 0.006 ND	< 0.006 ND	< 0.006 ND	< 0.006 ND	< 0.1 ND	< 3.24E-02 ND	< 4.30E-01	< 6.57E-06	< 8.28E-07
1,3-Dichlorobenzene	< 0.0062 ND	< 0.0062 ND	< 0.0062 ND	< 0.0062 ND	< 0.1 ND	< 3.32E-02 ND	< 4.41E-01	< 6.74E-06	< 8.49E-07
1,4-Dichlorobenzene	< 0.0086 ND	< 0.0086 ND	< 0.0086 ND	< 0.0086 ND	< 0.12 ND	< 4.45E-02 ND	< 5.90E-01	< 9.03E-06	< 1.14E-06
1,3-Dichloropropane	< 0.0036 ND	< 0.0036 ND	< 0.0036 ND	< 0.0036 ND	< 0.17 ND	< 2.87E-02 ND	< 3.81E-01	< 5.82E-06	< 7.33E-07
2,2-Dichloropropane	< 0.003 ND	< 0.003 ND	< 0.003 ND	< 0.003 ND	< 0.11 ND	< 2.12E-02 ND	< 2.82E-01	< 4.31E-06	< 5.43E-07
1,1-Dichloropropene	< 0.002 ND	< 0.002 ND	< 0.002 ND	< 0.002 ND	< 0.1 ND	< 1.64E-02 ND	< 2.18E-01	< 3.33E-06	< 4.19E-07
Hexachlorobutadiene	< 0.0096 ND	< 0.0096 ND	< 0.0096 ND	< 0.0096 ND	< 0.12 ND	< 4.85E-02 ND	< 6.44E-01	< 9.84E-06	< 1.24E-06
Isopropyl benzene	< 0.0046 ND	< 0.0046 ND	< 0.0046 ND	< 0.0046 ND	< 0.1 ND	< 2.68E-02 ND	< 3.56E-01	< 5.44E-06	< 6.85E-07
p-Isopropyltoluene	< 0.0076 ND	< 0.0076 ND	< 0.0076 ND	< 0.0076 ND	< 0.1 ND	< 3.88E-02 ND	< 5.15E-01	< 7.87E-06	< 9.92E-07
Naphthalene	< 0.02 ND	< 0.043	< 0.17	< 0.079	< 0.17 ND	< 3.26E-01	< 4.33E+00	< 6.62E-05	< 8.34E-06
n-Propylbenzene	< 0.0058 ND	< 0.0058 ND	< 0.0058 ND	< 0.0058 ND	< 0.1 ND	< 3.16E-02 ND	< 4.19E-01	< 6.41E-06	< 8.08E-07
1,1,1,2-Tetrachloroethane	< 0.002 ND	< 0.002 ND	< 0.002 ND	< 0.002 ND	< 0.12 ND	< 1.81E-02 ND	< 2.40E-01	< 3.67E-06	< 4.62E-07
Tetrahydrofuran	< 0.062 ND	< 0.062 ND	< 0.062 ND	< 0.062 ND	1.2 ND	< 3.49E-01 ND	< 4.63E+00	< 7.08E-05	< 8.92E-06
1,2,3-Trichlorobenzene	< 0.028 ND	< 0.028 ND	< 0.028 ND	< 0.028 ND	< 0.23 ND	< 1.31E-01 ND	< 1.74E+00	< 2.66E-05	< 3.36E-06
1,2,4-Trichlorobenzene	< 0.006 ND	< 0.006 ND	< 0.006 ND	< 0.006 ND	< 0.15 ND	< 3.66E-02 ND	< 4.86E-01	< 7.43E-06	< 9.36E-07
1,1,2-Trichloro-1,2,2-trifluoroethane	< 0.0036 ND	< 0.0036 ND	< 0.0036 ND	< 0.0036 ND	< 0.13 ND	< 2.53E-02 ND	< 3.36E-01	< 5.14E-06	< 6.47E-07
1,2,4-Trimethylbenzene	< 0.0096 ND	< 0.0096 ND	< 0.0096 ND	< 0.0096 ND	< 0.11 ND	< 4.76E-02 ND	< 6.32E-01	< 9.67E-06	< 1.22E-06
1,3,5-Trimethylbenzene	< 0.0056 ND	< 0.0056 ND	< 0.0056 ND	< 0.0056 ND	< 0.1 ND	< 3.08E-02 ND	< 4.09E-01	< 6.25E-06	< 7.87E-07
m- & p-Xylene	< 0.0125 J	< 0.0099 J	< 0.0095 J	< 0.0083 J	< 0.2 ND	< 5.70E-02	< 7.57E-01	< 1.16E-05	< 1.46E-06
o-Xylene	< 0.0034 ND	< 0.0034 ND	< 0.0034 ND	< 0.0034 ND	< 0.14 ND	< 2.54E-02 ND	< 3.37E-01	< 5.15E-06	< 6.48E-07
	0	0	0	0	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tentatively Identified Compounds (TICs)									
Nonane	0.06 NJ	0	0	0	0	6.00E-02	7.96E-01	1.22E-05	1.53E-06
Benzaldehyde	0	0.074 NJ	0.063 NJ	0.041 NJ	0	1.78E-01	2.36E+00	3.61E-05	4.55E-06

(a) Stack gas sample volume 2.6599 dry std cubic feet
(analyzed tubes only) 0.0753 dry std cubic meters

(b) Stack gas flow rate 8850 actual cubic feet per minute
4.1773 actual cubic meters per second
4080 dry std cubic feet per minute
1.9258 dry std cubic meters per second

(c) For non-d

PCDD/PCDF Congener and TEQ Results - CPT Run 1

Congener No.	PCDD/PCDF Compound	Analytical Result (pg/sample)		Stack (a,b,c) Concentration (ng/dscm)	2,3,7,8-TCDD Toxicity Equivalence Factor	Stack Concentration Toxic Equivalents (ng/dscm)	Emission Rate as 2,3,7,8-TCDD (g/s)
		Front Half	Back Half				
PCDDs							
1	2,3,7,8-TCDD	10 ND	19 Q	< 4.82E-03	1	< 4.82E-03	< 1.20E-11
	Other TCDD	0	1681	4.26E-01			
	Total TCDD	4 Q,J	1700 Q	4.32E-01			
2	1,2,3,7,8-PeCDD	50 ND	33 J	< 8.37E-03	0.5	< 4.19E-03	< 1.05E-11
	Other PeCDD	0	547	1.39E-01			
	Total PeCDD	8.2 Q,J	580 Q	1.49E-01			
3	1,2,3,4,7,8-HxCDD	50 ND	11 J	< 2.79E-03	0.1	< 2.79E-04	< 6.97E-13
4	1,2,3,6,7,8-HxCDD	50 ND	9.6 J	< 2.43E-03	0.1	< 2.43E-04	< 6.08E-13
5	1,2,3,7,8,9-HxCDD	50 ND	16 J	< 4.06E-03	0.1	< 4.06E-04	< 1.01E-12
	Other HxCDD	0	123.4	3.13E-02			
	Total HxCDD	6.3 Q,J	160 Q	4.22E-02			
6	1,2,3,4,6,7,8-HpCDD	6.7 J	24 B,J	7.79E-03	0.01	7.79E-05	1.94E-13
	Other HpCDD	4.3	20	6.16E-03			
	Total HpCDD	11 J	44 J,B	1.40E-02			
7	OCDD	22 Q,B,J	27 B,J	1.24E-02	0.001	1.24E-05	3.10E-14
Total PCDDs(d)		< 51.5	2511	< 6.50E-01		< 1.00E-02	< 2.50E-11
PCDFs							
8	2,3,7,8-TCDF	2.4 Q,J	230 Q	5.89E-02	0.1	5.89E-03	1.47E-11
	Other TCDF	12.6	5770	1.47E+00			
	Total TCDF	15 Q,J	6000 Q	1.53E+00			
9	1,2,3,7,8-PeCDF	3.3 Q,J	170 Q	4.40E-02	0.05	2.20E-03	5.49E-12
10	2,3,4,7,8-PeCDF	2.9 Q,J	190	4.89E-02	0.5	2.45E-02	6.11E-11
	Other PeCDF	22.8	2240	5.74E-01			
	Total PeCDF	29 Q	2600 Q	6.67E-01			
11	1,2,3,4,7,8-HxCDF	5.7 Q,J	200 Q	5.22E-02	0.1	5.22E-03	1.30E-11
12	1,2,3,6,7,8-HxCDF	3.7 Q,J	100	2.63E-02	0.1	2.63E-03	6.57E-12
13	2,3,4,6,7,8-HxCDF	2.7 B,J	47 B,J	1.26E-02	0.1	1.26E-03	3.15E-12
14	1,2,3,7,8,9-HxCDF	50 ND	5.5 B,J	< 1.40E-03	0.1	< 1.40E-04	< 3.48E-13
	Other HxCDF	0	477.5	1.21E-01			
	Total HxCDF	21 Q,J,B	830 Q,B	2.16E-01			
15	1,2,3,4,6,7,8-HpCDF	8 Q,B,J	150 B	4.01E-02	0.01	4.01E-04	1.00E-12
16	1,2,3,4,7,8,9-HpCDF	50 ND	10 Q,J	< 2.54E-03	0.01	< 2.54E-05	< 6.33E-14
	Other HpCDF	0	40	1.01E-02			
	Total HpCDF	8 Q,B,J	200 B,Q	5.28E-02			
17	OCDF	8.5 Q,B,J	14 B,J	5.71E-03	0.001	5.71E-06	1.43E-14
Total PCDFs(e)		< 81.5	9644	< 2.47E+00		< 4.22E-02	< 1.05E-10
Total PCDD/PCDF		< 133	12155	< 3.12E+00		< 5.23E-02	< 1.30E-10

NOTE: All concentrations in this table are uncorrected for oxygen concentration.

(a) Stack gas sample volume

139,210 dry standard cubic feet

3.94 dry standard cubic meters

(b) Stack gas flow rate

5,290 dry standard cubic feet per minute

2.50 dry standard cubic meters per second

(c) For non-detects, stack concentrations and emissions are calculated using one half of the detection limit.

If the sum of the detection limits of the individual isomers for a given dioxin or furan exceeded the detection limit of the total it was assumed that these individual isomers, when added, constituted the entire total so that any contribution to the total by "other" isomers would be zero.

(d) Total PCDDs = Total TCDD + Total PeCDD + Total HxCDD + Total HpCDD + OCDD

(e) Total PCDFs = Total TCDF + Total PeCDF + Total HxCDF + Total HpCDF + OCDF

PCDD/PCDF Congener and TEQ Results - CPT Run 2

Congener No.	PCDD/PCDF Compound	Analytical Result (pg/sample)		Stack (a,b,c) Concentration (ng/dscm)	2,3,7,8-TCDD Toxicity Equivalence Factor	Stack Concentration Toxic Equivalents (ng/dscm)	Emission Rate as 2,3,7,8-TCDD (g/s)
		Front Half	Back Half				
PCDDs							
1	2,3,7,8-TCDD	10 ND	9.2 Q,J	< 2.72E-03	1	< 2.72E-03	< 4.86E-12
	Other TCDD	0	490.8	1.45E-01			
	Total TCDD	10 ND	500 Q	< 1.48E-01			
2	1,2,3,7,8-PeCDD	50 ND	18 J	< 5.33E-03	0.5	< 2.67E-03	< 4.76E-12
	Other PeCDD	0	232	6.87E-02			
	Total PeCDD	1.3 Q,J	250 Q	7.44E-02			
3	1,2,3,4,7,8-HxCDD	50 ND	8.2 J	< 2.43E-03	0.1	< 2.43E-04	< 4.33E-13
4	1,2,3,6,7,8-HxCDD	50 ND	8.5 J	< 2.52E-03	0.1	< 2.52E-04	< 4.49E-13
5	1,2,3,7,8,9-HxCDD	50 ND	13 J	< 3.85E-03	0.1	< 3.85E-04	< 6.87E-13
	Other HxCDD	0	90.3	2.67E-02			
	Total HxCDD	50 ND	120 Q,J	< 3.55E-02			
6	1,2,3,4,6,7,8-HpCDD	50 ND	23 B,J	< 6.81E-03	0.01	< 6.81E-05	< 1.22E-13
	Other HpCDD	0	19	5.63E-03			
	Total HpCDD	2.2 Q,J	42 J,B	1.31E-02			
7	OCDD	17 B,J	24 B,J	1.21E-02	0.001	1.21E-05	2.17E-14
Total PCDDs(d)		< 80.5	936	< 2.83E-01		< 6.35E-03	< 1.13E-11
PCDFs							
8	2,3,7,8-TCDF	10 ND	130 Q	< 3.85E-02	0.1	< 3.85E-03	< 6.87E-12
	Other TCDF	0	2970	8.80E-01			
	Total TCDF	10 ND	3100 Q	< 9.18E-01			
9	1,2,3,7,8-PeCDF	50 ND	140	< 4.15E-02	0.05	< 2.07E-03	< 3.70E-12
10	2,3,4,7,8-PeCDF	50 ND	150	< 4.44E-02	0.5	< 2.22E-02	< 3.96E-11
	Other PeCDF	0	1710	5.06E-01			
	Total PeCDF	0.8 Q,J	2000 Q	5.93E-01			
11	1,2,3,4,7,8-HxCDF	2.1 Q,J	190	5.69E-02	0.1	5.69E-03	1.02E-11
12	1,2,3,6,7,8-HxCDF	1.6 Q,J	98	2.95E-02	0.1	2.95E-03	5.26E-12
13	2,3,4,6,7,8-HxCDF	50 ND	47 B,J	< 1.39E-02	0.1	< 1.39E-03	< 2.48E-12
14	1,2,3,7,8,9-HxCDF	50 ND	6 Q,B,J	< 1.78E-03	0.1	< 1.78E-04	< 3.17E-13
	Other HxCDF	0	489	1.45E-01			
	Total HxCDF	5.3 J,Q	830 B,Q	2.47E-01			
15	1,2,3,4,6,7,8-HpCDF	3.7 Q,B,J	160 B	4.85E-02	0.01	4.85E-04	8.65E-13
16	1,2,3,4,7,8,9-HpCDF	50 ND	18 J	< 5.33E-03	0.01	< 5.33E-05	< 9.51E-14
	Other HpCDF	0	52	1.54E-02			
	Total HpCDF	3.7 Q,B,J	230 B	6.92E-02			
17	OCDF	4.5 Q,B,J	23 B,J	8.14E-03	0.001	8.14E-06	1.45E-14
Total PCDFs(e)		< 24.3	6183	< 1.84E+00		< 3.89E-02	< 6.94E-11
Total PCDD/PCDF		< 104.8	7119	< 2.12E+00		< 4.52E-02	< 8.07E-11

NOTE: All concentrations in this table are uncorrected for oxygen concentration.

(a) Stack gas sample volume

119.220 dry standard cubic feet

3.38 dry standard cubic meters

(b) Stack gas flow rate

3,780 dry standard cubic feet per minute

1.78 dry standard cubic meters per second

(c) For non-detects, stack concentrations and emissions are calculated using one half of the detection limit.

If the sum of the detection limits of the individual isomers for a given dioxin or furan exceeded the detection limit of the total it was assumed that these individual isomers, when added, constituted the entire total so that any contribution to the total by "other" isomers would be zero.

(d) Total PCDDs = Total TCDD + Total PeCDD + Total HxCDD + Total HpCDD + OCDD

(e) Total PCDFs = Total TCDF + Total PeCDF + Total HxCDF + Total HpCDF + OCDF

PCDD/PCDF Congener and TEQ Results - CPT Run 3

Congener No.	PCDD/PCDF Compound	Analytical Result (pg/sample)		Stack (a,b,c) Concentration (ng/dscm)	2,3,7,8-TCDD Toxicity Equivalence Factor	Stack Concentration Toxic Equivalents (ng/dscm)	Emission Rate as 2,3,7,8-TCDD (g/s)
		Front Half	Back Half				
PCDDs							
1	2,3,7,8-TCDD	10 ND	12 Q	< 3.36E-03	1	< 3.36E-03	< 6.40E-12
	Other TCDD	0	398	1.11E-01			
	Total TCDD	10 ND	410 Q	< 1.15E-01			
2	1,2,3,7,8-PeCDD	50 ND	22 J	< 6.16E-03	0.5	< 3.08E-03	< 5.87E-12
	Other PeCDD	0	228	6.38E-02			
	Total PeCDD	50 ND	250 Q	< 7.00E-02			
3	1,2,3,4,7,8-HxCDD	50 ND	7.3 Q,J	< 2.04E-03	0.1	< 2.04E-04	< 3.90E-13
4	1,2,3,6,7,8-HxCDD	50 ND	9.7 Q,J	< 2.71E-03	0.1	< 2.71E-04	< 5.18E-13
5	1,2,3,7,8,9-HxCDD	50 ND	16 J	< 4.48E-03	0.1	< 4.48E-04	< 8.54E-13
	Other HxCDD	0	97	2.71E-02			
	Total HxCDD	50 ND	130 Q,J	< 3.64E-02			
6	1,2,3,4,6,7,8-HpCDD	2.2 J	26 B,J	7.89E-03	0.01	7.89E-05	1.50E-13
	Other HpCDD	0	24	6.72E-03			
	Total HpCDD	2.2 J	50 J,B	1.46E-02			
7	OCDD	18 B,J	26 B,J	1.23E-02	0.001	1.23E-05	2.35E-14
Total PCDDs(d)		< 130.2	866	< 2.48E-01		< 7.45E-03	< 1.42E-11
PCDFs							
8	2,3,7,8-TCDF	10 ND	160 Q	< 4.48E-02	0.1	< 4.48E-03	< 8.54E-12
	Other TCDF	0	3840	1.07E+00			
	Total TCDF	10 ND	4000 Q	< 1.12E+00			
9	1,2,3,7,8-PeCDF	50 ND	190	< 5.32E-02	0.05	< 2.66E-03	< 5.07E-12
10	2,3,4,7,8-PeCDF	50 ND	180	< 5.04E-02	0.5	< 2.52E-02	< 4.80E-11
	Other PeCDF	0	2230	6.24E-01			
	Total PeCDF	2 Q,J	2600	7.28E-01			
11	1,2,3,4,7,8-HxCDF	50 ND	230	< 6.44E-02	0.1	< 6.44E-03	< 1.23E-11
12	1,2,3,6,7,8-HxCDF	50 ND	130	< 3.64E-02	0.1	< 3.64E-03	< 6.94E-12
13	2,3,4,6,7,8-HxCDF	50 ND	56 B	< 1.57E-02	0.1	< 1.57E-03	< 2.99E-12
14	1,2,3,7,8,9-HxCDF	50 ND	8.4 B,J	< 2.35E-03	0.1	< 2.35E-04	< 4.48E-13
	Other HxCDF	0	675.6	1.89E-01			
	Total HxCDF	50 ND	1100 B	< 3.08E-01			
15	1,2,3,4,6,7,8-HpCDF	3.5 Q,B,J	190 B	5.41E-02	0.01	5.41E-04	1.03E-12
16	1,2,3,4,7,8,9-HpCDF	50 ND	21 J	< 5.88E-03	0.01	< 5.88E-05	< 1.12E-13
	Other HpCDF	0	69	1.93E-02			
	Total HpCDF	3.5 Q,B,J	280 B	7.93E-02			
17	OCDF	3.4 Q,B,J	22 B,J	7.11E-03	0.001	7.11E-06	1.36E-14
Total PCDFs(e)		< 68.9	8002	< 2.24E+00		< 4.48E-02	< 8.54E-11
Total PCDD/PCDF		< 199.1	8868	< 2.49E+00		< 5.23E-02	< 9.96E-11

NOTE: All concentrations in this table are uncorrected for oxygen concentration.

(a) Stack gas sample volume

126.180 dry standard cubic feet

3.57 dry standard cubic meters

(b) Stack gas flow rate

4.040 dry standard cubic feet per minute

1.91 dry standard cubic meters per second

(c) For non-detects, stack concentrations and emissions are calculated using one half of the detection limit.

If the sum of the detection limits of the individual isomers for a given dioxin or furan exceeded the detection limit of the total it was assumed that these individual isomers, when added, constituted the entire total so that any contribution to the total by "other" isomers would be zero.

(d) Total PCDDs = Total TCDD + Total PeCDD + Total HxCDD + Total HpCDD + OCDD

(e) Total PCDFs = Total TCDF + Total PeCDF + Total HxCDF + Total HpCDF + OCDF

Multiple Metals Results - Run 1

Parameter	Units	Measured Value
Stack Sampling Parameters		
Net sampling time	minutes	120
Stack gas flow rate	dscfm	4,970
	acfm	11,260
	dscm/min	140.75
Stack gas temperature	°F	176
Stack gas velocity	ft/min	3,582
Stack gas sample volume	dscf	76,790
	dscm	2,175
Isokinetic	%	98.2
Stack gas moisture content	vol %	46.2
Stack gas carbon dioxide content	vol %, dry	6.3
Stack gas oxygen content	vol %, dry	9.6
Aluminum		
Metal collected	ug	132.3
Metal concentration	ug/dscm	6.08E+01
	ug/dscm @ 7% O ₂	7.47E+01
Metal emission rate	lb/h	1.13E-03
	g/s	1.43E-04
Antimony		
Metal collected	ug	< 5.3
Metal concentration	ug/dscm	< 2.44E+00
	ug/dscm @ 7% O ₂	< 2.99E+00
Metal emission rate	lb/h	< 4.54E-05
	g/s	< 5.72E-06
Arsenic		
Metal collected	ug	< 5.9
Metal concentration	ug/dscm	< 2.73E+00
	ug/dscm @ 7% O ₂	< 3.35E+00
Metal emission rate	lb/h	< 5.08E-05
	g/s	< 6.40E-06
Barium		
Metal collected	ug	10.2
Metal concentration	ug/dscm	4.69E+00
	ug/dscm @ 7% O ₂	5.76E+00
Metal emission rate	lb/h	8.73E-05
	g/s	1.10E-05
Beryllium		
Metal collected	ug	< 0.4
Metal concentration	ug/dscm	< 1.75E-01
	ug/dscm @ 7% O ₂	< 2.15E-01
Metal emission rate	lb/h	< 3.25E-06
	g/s	< 4.10E-07
Cadmium		
Metal collected	ug	12.1
Metal concentration	ug/dscm	5.56E+00
	ug/dscm @ 7% O ₂	6.83E+00
Metal emission rate	lb/h	1.04E-04
	g/s	1.31E-05
Chromium		
Metal collected	ug	56.0
Metal concentration	ug/dscm	2.58E+01
	ug/dscm @ 7% O ₂	3.16E+01
Metal emission rate	lb/h	4.79E-04
	g/s	6.04E-05
Cobalt		
Metal collected	ug	< 1.1
Metal concentration	ug/dscm	< 5.15E-01
	ug/dscm @ 7% O ₂	< 6.32E-01
Metal emission rate	lb/h	< 9.59E-06
	g/s	< 1.21E-06
Copper		
Metal collected	ug	167.1
Metal concentration	ug/dscm	7.68E+01
	ug/dscm @ 7% O ₂	9.44E+01
Metal emission rate	lb/h	1.43E-03
	g/s	1.80E-04
Iron		
Metal collected	ug	0.0
Metal concentration	ug/dscm	0.00E+00
	ug/dscm @ 7% O ₂	0.00E+00
Metal emission rate	lb/h	0.00E+00
	g/s	0.00E+00
Lead		
Metal collected	ug	356.8
Metal concentration	ug/dscm	1.64E+02
	ug/dscm @ 7% O ₂	2.01E+02
Metal emission rate	lb/h	3.05E-03
	g/s	3.85E-04
Manganese		
Metal collected	ug	65.8
Metal concentration	ug/dscm	3.03E+01
	ug/dscm @ 7% O ₂	3.72E+01
Metal emission rate	lb/h	5.63E-04
	g/s	7.10E-05
Mercury		
Metal collected	ug	< 10.8
Metal concentration	ug/dscm	< 4.98E+00
	ug/dscm @ 7% O ₂	< 6.11E+00
Metal emission rate	lb/h	< 9.26E-05
	g/s	< 1.17E-05
Molybdenum		
Metal collected	ug	0.0
Metal concentration	ug/dscm	0.00E+00
	ug/dscm @ 7% O ₂	0.00E+00
Metal emission rate	lb/h	0.00E+00
	g/s	0.00E+00
Nickel		
Metal collected	ug	12.0
Metal concentration	ug/dscm	5.52E+00
	ug/dscm @ 7% O ₂	6.78E+00
Metal emission rate	lb/h	1.03E-04
	g/s	1.29E-05
Selenium		
Metal collected	ug	4.5
Metal concentration	ug/dscm	2.07E+00
	ug/dscm @ 7% O ₂	2.54E+00
Metal emission rate	lb/h	3.85E-05
	g/s	4.85E-06
Silver		
Metal collected	ug	2.6
Metal concentration	ug/dscm	1.20E+00
	ug/dscm @ 7% O ₂	1.47E+00
Metal emission rate	lb/h	2.23E-05
	g/s	2.80E-06
Thallium		
Metal collected	ug	< 11.0
Metal concentration	ug/dscm	< 5.06E+00
	ug/dscm @ 7% O ₂	< 6.21E+00
Metal emission rate	lb/h	< 9.42E-05
	g/s	< 1.19E-05
Vanadium		
Metal collected	ug	< 3.0
Metal concentration	ug/dscm	< 1.38E+00
	ug/dscm @ 7% O ₂	< 1.69E+00
Metal emission rate	lb/h	< 2.57E-05
	g/s	< 3.24E-06
Zinc		
Metal collected	ug	218.4
Metal concentration	ug/dscm	1.00E+02
	ug/dscm @ 7% O ₂	1.23E+02
Metal emission rate	lb/h	1.87E-03
	g/s	2.36E-04

Note: dscf = Dry standard cubic feet
dscfm = Dry standard cubic feet per minute
acfm = Actual cubic feet per minute
dscm = Dry standard cubic meters

Standard conditions are 68°F, 29.92 in. Hg (20°C, 760 mm Hg)

Multiple Metals Results - Run 2

Parameter	Units	Measured Value
Stack Sampling Parameters		
Net sampling time	minutes	120
Stack gas flow rate	dscfm	3,860
	acfm	8,600
	dscm/min	109.32
Stack gas temperature	°F	175
Stack gas velocity	ft/min	2,736
Stack gas sample volume	dscf	79,370
	dscm	2,248
Isokinetic	%	102.9
Stack gas moisture content	vol %	45.1
Stack gas carbon dioxide content	vol %, dry	7.0
Stack gas oxygen content	vol %, dry	8.9
Aluminum		
Metal collected	ug	123.2
Metal concentration	ug/dscm	5.48E+01
	ug/dscm @ 7% O ₂	6.34E+01
Metal emission rate	lb/h	7.93E-04
	g/s	9.99E-05
Antimony		
Metal collected	ug	< 4.8
Metal concentration	ug/dscm	< 2.14E+00
	ug/dscm @ 7% O ₂	< 2.47E+00
Metal emission rate	lb/h	< 3.09E-05
	g/s	< 3.89E-06
Arsenic		
Metal collected	ug	< 2.7
Metal concentration	ug/dscm	< 1.21E+00
	ug/dscm @ 7% O ₂	< 1.41E+00
Metal emission rate	lb/h	< 1.76E-05
	g/s	< 2.21E-06
Barium		
Metal collected	ug	9.0
Metal concentration	ug/dscm	4.00E+00
	ug/dscm @ 7% O ₂	4.63E+00
Metal emission rate	lb/h	5.79E-05
	g/s	7.30E-06
Beryllium		
Metal collected	ug	< 0.4 ND
Metal concentration	ug/dscm	< 1.60E-01 ND
	ug/dscm @ 7% O ₂	< 1.85E-01 ND
Metal emission rate	lb/h	< 2.32E-06 ND
	g/s	< 2.92E-07 ND
Cadmium		
Metal collected	ug	7.9
Metal concentration	ug/dscm	3.51E+00
	ug/dscm @ 7% O ₂	4.07E+00
Metal emission rate	lb/h	5.08E-05
	g/s	6.40E-06
Chromium		
Metal collected	ug	20.2
Metal concentration	ug/dscm	8.99E+00
	ug/dscm @ 7% O ₂	1.04E+01
Metal emission rate	lb/h	1.30E-04
	g/s	1.64E-05
Cobalt		
Metal collected	ug	< 1.0 ND
Metal concentration	ug/dscm	< 4.45E-01 ND
	ug/dscm @ 7% O ₂	< 5.15E-01 ND
Metal emission rate	lb/h	< 6.43E-06 ND
	g/s	< 8.11E-07 ND
Copper		
Metal collected	ug	108.1
Metal concentration	ug/dscm	4.81E+01
	ug/dscm @ 7% O ₂	5.56E+01
Metal emission rate	lb/h	6.95E-04
	g/s	8.76E-05
Iron		
Metal collected	ug	0.0
Metal concentration	ug/dscm	0.00E+00
	ug/dscm @ 7% O ₂	0.00E+00
Metal emission rate	lb/h	0.00E+00
	g/s	0.00E+00
Lead		
Metal collected	ug	250.4
Metal concentration	ug/dscm	1.11E+02
	ug/dscm @ 7% O ₂	1.29E+02
Metal emission rate	lb/h	1.61E-03
	g/s	2.03E-04
Manganese		
Metal collected	ug	42.0
Metal concentration	ug/dscm	1.87E+01
	ug/dscm @ 7% O ₂	2.16E+01
Metal emission rate	lb/h	2.70E-04
	g/s	3.40E-05
Mercury		
Metal collected	ug	< 11.3
Metal concentration	ug/dscm	< 5.02E+00
	ug/dscm @ 7% O ₂	< 5.81E+00
Metal emission rate	lb/h	< 7.26E-05
	g/s	< 9.15E-06
Molybdenum		
Metal collected	ug	0.0
Metal concentration	ug/dscm	0.00E+00
	ug/dscm @ 7% O ₂	0.00E+00
Metal emission rate	lb/h	0.00E+00
	g/s	0.00E+00
Nickel		
Metal collected	ug	11.4
Metal concentration	ug/dscm	5.07E+00
	ug/dscm @ 7% O ₂	5.87E+00
Metal emission rate	lb/h	7.33E-05
	g/s	9.24E-06
Selenium		
Metal collected	ug	4.0
Metal concentration	ug/dscm	1.78E+00
	ug/dscm @ 7% O ₂	2.06E+00
Metal emission rate	lb/h	2.57E-05
	g/s	3.24E-06
Silver		
Metal collected	ug	5.7
Metal concentration	ug/dscm	2.54E+00
	ug/dscm @ 7% O ₂	2.93E+00
Metal emission rate	lb/h	3.67E-05
	g/s	4.62E-06
Thallium		
Metal collected	ug	< 10.6
Metal concentration	ug/dscm	< 4.72E+00
	ug/dscm @ 7% O ₂	< 5.46E+00
Metal emission rate	lb/h	< 6.82E-05
	g/s	< 8.59E-06
Vanadium		
Metal collected	ug	< 1.6
Metal concentration	ug/dscm	< 7.12E-01
	ug/dscm @ 7% O ₂	< 8.24E-01
Metal emission rate	lb/h	< 1.03E-05
	g/s	< 1.30E-06
Zinc		
Metal collected	ug	136.2
Metal concentration	ug/dscm	6.06E+01
	ug/dscm @ 7% O ₂	7.01E+01
Metal emission rate	lb/h	8.76E-04
	g/s	1.10E-04

Note: dscf = Dry standard cubic feet
dscfm = Dry standard cubic feet per minute
acfm = Actual cubic feet per minute
dscm = Dry standard cubic meters

Standard conditions are 68°F, 29.92 in. Hg (20°C, 760 mm Hg)

Multiple Metals Results - Run 3

Parameter	Units	Measured Value
Stack Sampling Parameters		
Net sampling time	minutes	120
Stack gas flow rate	dscfm	4,000
	acfm	8,920
	dscm/min	113.28
Stack gas temperature	°F	175
Stack gas velocity	ft/min	2,838
Stack gas sample volume	dscf	82,610
	dscm	2,340
Isokinetic	%	103.2
Stack gas moisture content	vol %	45.5
Stack gas carbon dioxide content	vol %, dry	7.0
Stack gas oxygen content	vol %, dry	9.3
Aluminum		
Metal collected	ug	125.2
Metal concentration	ug/dscm	5.35E+01
	ug/dscm @ 7% O ₂	6.40E+01
Metal emission rate	lb/h	8.02E-04
	g/s	1.01E-04
Antimony		
Metal collected	ug	< 4.9
Metal concentration	ug/dscm	< 2.09E+00
	ug/dscm @ 7% O ₂	< 2.51E+00
Metal emission rate	lb/h	< 3.14E-05
	g/s	< 3.95E-06
Arsenic		
Metal collected	ug	< 3.7
Metal concentration	ug/dscm	< 1.59E+00
	ug/dscm @ 7% O ₂	< 1.91E+00
Metal emission rate	lb/h	< 2.39E-05
	g/s	< 3.01E-06
Barium		
Metal collected	ug	10.8
Metal concentration	ug/dscm	4.62E+00
	ug/dscm @ 7% O ₂	5.52E+00
Metal emission rate	lb/h	6.92E-05
	g/s	8.72E-06
Beryllium		
Metal collected	ug	< 0.4 ND
Metal concentration	ug/dscm	< 1.54E-01 ND
	ug/dscm @ 7% O ₂	< 1.84E-01 ND
Metal emission rate	lb/h	< 2.31E-06 ND
	g/s	< 2.91E-07 ND
Cadmium		
Metal collected	ug	9.7
Metal concentration	ug/dscm	4.15E+00
	ug/dscm @ 7% O ₂	4.97E+00
Metal emission rate	lb/h	6.22E-05
	g/s	7.84E-06
Chromium		
Metal collected	ug	36.5
Metal concentration	ug/dscm	1.56E+01
	ug/dscm @ 7% O ₂	1.87E+01
Metal emission rate	lb/h	2.34E-04
	g/s	2.95E-05
Cobalt		
Metal collected	ug	< 1.0 ND
Metal concentration	ug/dscm	< 4.27E-01 ND
	ug/dscm @ 7% O ₂	< 5.11E-01 ND
Metal emission rate	lb/h	< 6.40E-06 ND
	g/s	< 8.07E-07 ND
Copper		
Metal collected	ug	112.4
Metal concentration	ug/dscm	4.80E+01
	ug/dscm @ 7% O ₂	5.75E+01
Metal emission rate	lb/h	7.20E-04
	g/s	9.07E-05
Iron		
Metal collected	ug	0.0
Metal concentration	ug/dscm	0.00E+00
	ug/dscm @ 7% O ₂	0.00E+00
Metal emission rate	lb/h	0.00E+00
	g/s	0.00E+00
Lead		
Metal collected	ug	694.2
Metal concentration	ug/dscm	2.97E+02
	ug/dscm @ 7% O ₂	3.55E+02
Metal emission rate	lb/h	4.45E-03
	g/s	5.60E-04
Manganese		
Metal collected	ug	41.4
Metal concentration	ug/dscm	1.77E+01
	ug/dscm @ 7% O ₂	2.12E+01
Metal emission rate	lb/h	2.65E-04
	g/s	3.34E-05
Mercury		
Metal collected	ug	< 14.7
Metal concentration	ug/dscm	< 6.28E+00
	ug/dscm @ 7% O ₂	< 7.52E+00
Metal emission rate	lb/h	< 9.42E-05
	g/s	< 1.19E-05
Molybdenum		
Metal collected	ug	0.0
Metal concentration	ug/dscm	0.00E+00
	ug/dscm @ 7% O ₂	0.00E+00
Metal emission rate	lb/h	0.00E+00
	g/s	0.00E+00
Nickel		
Metal collected	ug	9.4
Metal concentration	ug/dscm	4.02E+00
	ug/dscm @ 7% O ₂	4.81E+00
Metal emission rate	lb/h	6.02E-05
	g/s	7.59E-06
Selenium		
Metal collected	ug	3.9
Metal concentration	ug/dscm	1.68E+00
	ug/dscm @ 7% O ₂	2.02E+00
Metal emission rate	lb/h	2.52E-05
	g/s	3.18E-06
Silver		
Metal collected	ug	< 1.9 ND
Metal concentration	ug/dscm	< 8.29E-01 ND
	ug/dscm @ 7% O ₂	< 9.92E-01 ND
Metal emission rate	lb/h	< 1.24E-05 ND
	g/s	< 1.57E-06 ND
Thallium		
Metal collected	ug	< 10.7
Metal concentration	ug/dscm	< 4.57E+00
	ug/dscm @ 7% O ₂	< 5.47E+00
Metal emission rate	lb/h	< 6.85E-05
	g/s	< 8.64E-06
Vanadium		
Metal collected	ug	< 2.0
Metal concentration	ug/dscm	< 8.55E-01
	ug/dscm @ 7% O ₂	< 1.02E+00
Metal emission rate	lb/h	< 1.28E-05
	g/s	< 1.61E-06
Zinc		
Metal collected	ug	133.3
Metal concentration	ug/dscm	5.70E+01
	ug/dscm @ 7% O ₂	6.82E+01
Metal emission rate	lb/h	8.54E-04
	g/s	1.08E-04

Note: dscf = Dry standard cubic feet
dscfm = Dry standard cubic feet per minute
acfm = Actual cubic feet per minute
dscm = Dry standard cubic meters

Standard conditions are 68°F, 29.92 in. Hg (20°C, 760 mm Hg)

Particulate, Hydrogen Chloride and Chlorine Results - Run 1

Parameter	Units	Measured Value
Stack Sampling Parameters		
Net sampling time	minutes	120
Stack gas flow rate	dscfm	5,030
	acfm	11,320
	dscm/min	142.45
Stack gas temperature	°F	175
Stack gas velocity	ft/min	3,606
Stack gas sample volume	dscf	72.660
	dscm	2.058
Isokinetic	%	93.7
Stack gas moisture content	vol %	45.9
Stack gas carbon dioxide content	vol %, dry	6.3
Stack gas oxygen content	vol %, dry	9.6
Hydrogen chloride and chlorine		
HCl collected	mg	11.8
Cl ₂ collected	mg	1.95
Stack gas HCl concentration	mg/dscm	5.73E+00
	mg/dscm @7% O ₂	7.04E+00
Stack gas HCl emission rate	lb/h	1.08E-01
	kg/h	4.90E-02
	g/s	1.36E-02
Stack gas Cl ₂ concentration	mg/dscm	9.48E-01
	mg/dscm @7% O ₂	1.16E+00
Stack gas Cl ₂ emission rate	lb/h	1.79E-02
	kg/h	8.10E-03
	g/s	2.25E-03
Stack gas HCl+Cl ₂ concentration expressed as HCl equivalents	ppmv, dry	4.42E+00
	ppmv, dry @7% O ₂	5.43E+00
Particulate		
Particulate matter collected	mg	34.3
Particulate concentration	gr/dscf	7.29E-03
	gr/dscf @ 7% O ₂	8.95E-03
	mg/dscm	1.67E+01
	mg/dscm @ 7% O ₂	2.05E+01
Particulate emission rate	lb/h	3.14E-01
	kg/h	1.42E-01
	g/s	3.96E-02

Note: dscf = Dry standard cubic feet
dscfm = Dry standard cubic feet per minute
acfm = Actual cubic feet per minute
dscm = Dry standard cubic meters

Standard conditions are 68°F, 29.92 in. Hg (20°C, 760 mm Hg)

Particulate, Hydrogen Chloride and Chlorine Results - Run 2

Parameter	Units	Measured Value
Stack Sampling Parameters		
Net sampling time	minutes	120
Stack gas flow rate	dscfm	3,850
	acfm	8,580
	dscm/min	109.03
Stack gas temperature	°F	174
Stack gas velocity	ft/min	2,730
Stack gas sample volume	dscf	74.990
	dscm	2.124
Isokinetic	%	96.0
Stack gas moisture content	vol %	45.1
Stack gas carbon dioxide content	vol %, dry	7.0
Stack gas oxygen content	vol %, dry	8.9
Hydrogen chloride and chlorine		
HCl collected	mg	6.95
Cl ₂ collected	mg	2.01
Stack gas HCl concentration	mg/dscm	3.27E+00
	mg/dscm @7% O ₂	3.79E+00
Stack gas HCl emission rate	lb/h	4.72E-02
	kg/h	2.14E-02
	g/s	5.95E-03
Stack gas Cl ₂ concentration	mg/dscm	9.46E-01
	mg/dscm @7% O ₂	1.10E+00
Stack gas Cl ₂ emission rate	lb/h	1.37E-02
	kg/h	6.19E-03
	g/s	1.72E-03
Stack gas HCl+Cl ₂ concentration expressed as HCl equivalents	ppmv, dry	2.80E+00
	ppmv, dry @7% O ₂	3.24E+00
Particulate		
Particulate matter collected	mg	19.4
Particulate concentration	gr/dscf	3.99E-03
	gr/dscf @ 7% O ₂	4.62E-03
	mg/dscm	9.13E+00
	mg/dscm @ 7% O ₂	1.06E+01
Particulate emission rate	lb/h	1.32E-01
	kg/h	5.98E-02
	g/s	1.66E-02

Note: dscf = Dry standard cubic feet
dscfm = Dry standard cubic feet per minute
acfm = Actual cubic feet per minute
dscm = Dry standard cubic meters

Standard conditions are 68°F, 29.92 in. Hg (20°C, 760 mm Hg)

Particulate, Hydrogen Chloride and Chlorine Results - Run 3

Parameter	Units	Measured Value
Stack Sampling Parameters		
Net sampling time	minutes	120
Stack gas flow rate	dscfm	4,090
	acfm	8,970
	dscm/min	115.83
Stack gas temperature	°F	174
Stack gas velocity	ft/min	2,856
Stack gas sample volume	dscf	79.290
	dscm	2.246
Isokinetic	%	95.7
Stack gas moisture content	vol %	44.8
Stack gas carbon dioxide content	vol %, dry	7.0
Stack gas oxygen content	vol %, dry	9.3
Hydrogen chloride and chlorine		
HCl collected	mg	6.49
Cl ₂ collected	mg	1.94
Stack gas HCl concentration	mg/dscm	2.89E+00
	mg/dscm @7% O ₂	3.46E+00
Stack gas HCl emission rate	lb/h	4.43E-02
	kg/h	2.01E-02
	g/s	5.58E-03
Stack gas Cl ₂ concentration	mg/dscm	8.64E-01
	mg/dscm @7% O ₂	1.03E+00
Stack gas Cl ₂ emission rate	lb/h	1.32E-02
	kg/h	6.00E-03
	g/s	1.67E-03
Stack gas HCl+Cl ₂ concentration expressed as HCl equivalents	ppmv, dry	2.49E+00
	ppmv, dry @7% O ₂	2.98E+00
Particulate		
Particulate matter collected	mg	33.6
Particulate concentration	gr/dscf	6.54E-03
	gr/dscf @ 7% O ₂	7.83E-03
	mg/dscm	1.50E+01
	mg/dscm @ 7% O ₂	1.79E+01
Particulate emission rate	lb/h	2.29E-01
	kg/h	1.04E-01
	g/s	2.89E-02

Note: dscf = Dry standard cubic feet
dscfm = Dry standard cubic feet per minute
acfm = Actual cubic feet per minute
dscm = Dry standard cubic meters

Standard conditions are 68°F, 29.92 in. Hg (20°C, 760 mm Hg)

Hexavalent Chromium Emissions Results - Run 1

Parameter	Units	Measured Value
Stack Sampling Parameters		
Net sampling time	minutes	120
Stack gas flow rate	dscfm	5,120
	acfm	11,160
	dscm/min	145.00
Stack gas temperature	°F	176
Stack gas velocity	ft/min	3,552
Stack gas sample volume	dscf	76.040
	dscm	2.153
Isokinetic	%	93.6
Stack gas moisture content	vol %	44.0
Stack gas carbon dioxide content	vol %, dry	6.3
Stack gas oxygen content	vol %, dry	9.6
Hexavalent chromium		
Metal collected	ug	5.6
Metal concentration	ug/dscm	2.60E+00
	ug/dscm @ 7% O ₂	3.19E+00
Metal emission rate	lb/h	4.99E-05
	g/s	6.28E-06

Note: dscf = Dry standard cubic feet
dscfm = Dry standard cubic feet per minute
acfm = Actual cubic feet per minute
dscm = Dry standard cubic meters

Standard conditions are 68°F, 29.92 in. Hg (20°C, 760 mm Hg)

Hexavalent Chromium Emissions Results - Run 2

Parameter	Units	Measured Value
Stack Sampling Parameters		
Net sampling time	minutes	120
Stack gas flow rate	dscfm	3,780
	acfm	8,470
	dscm/min	107.05
Stack gas temperature	°F	175
Stack gas velocity	ft/min	2,694
Stack gas sample volume	dscf	75.030
	dscm	2.125
Isokinetic	%	101.1
Stack gas moisture content	vol %	45.3
Stack gas carbon dioxide content	vol %, dry	7.0
Stack gas oxygen content	vol %, dry	8.9
Hexavalent chromium		
Metal collected	ug	5.9
Metal concentration	ug/dscm	2.78E+00
	ug/dscm @ 7% O ₂	3.21E+00
Metal emission rate	lb/h	3.93E-05
	g/s	4.95E-06

Note: dscf = Dry standard cubic feet
dscfm = Dry standard cubic feet per minute
acfm = Actual cubic feet per minute
dscm = Dry standard cubic meters

Standard conditions are 68°F, 29.92 in. Hg (20°C, 760 mm Hg)

Hexavalent Chromium Emissions Results - Run 3

Parameter	Units	Measured Value
Stack Sampling Parameters		
Net sampling time	minutes	120
Stack gas flow rate	dscfm	3,890
	acfm	8,770
	dscm/min	110.17
Stack gas temperature	°F	176
Stack gas velocity	ft/min	2,796
Stack gas sample volume	dscf	78.620
	dscm	2.227
Isokinetic	%	103.1
Stack gas moisture content	vol %	46.1
Stack gas carbon dioxide content	vol %, dry	7.0
Stack gas oxygen content	vol %, dry	9.3
Hexavalent chromium		
Metal collected	ug	7.5
Metal concentration	ug/dscm	3.37E+00
	ug/dscm @ 7% O ₂	4.03E+00
Metal emission rate	lb/h	4.91E-05
	g/s	6.18E-06

Note: dscf = Dry standard cubic feet
dscfm = Dry standard cubic feet per minute
acfm = Actual cubic feet per minute
dscm = Dry standard cubic meters

Standard conditions are 68°F, 29.92 in. Hg (20°C, 760 mm Hg)

OCP Compound Emission Results - Run 1

OCP Compound	Front Half Analytical Result (ug/sample)	Back Half Analytical Result (ug/sample)	Condensate Analytical Result (ug/sample)	Stack (a,b,c) Concentration (ug/dscm)	Emission Rate (g/s)
Standard Target Analytes					
Aldrin	0.036 ND	0.014 ND	0.034 ND	< 2.41E-02	< 5.54E-08
a-BHC	0.026 ND	0.022 ND	0.016 ND	< 1.84E-02	< 4.22E-08
b-BHC	0.033 ND	0.063 ND	0.034 ND	< 3.73E-02	< 8.58E-08
g-BHC (Lindane)	0.014 ND	0.014 ND	0.012 ND	< 1.15E-02	< 2.64E-08
d-BHC	0.015 ND	0.022 J,COL	0.025 ND	< 1.78E-02	< 4.09E-08
a-Chlordane	0.013 ND	0.021 J,COL	0.014 ND	< 1.38E-02	< 3.17E-08
g-Chlordane	0.078 ND	0.043 ND	0.018 ND	< 3.99E-02	< 9.17E-08
4,4'-DDD	0.083 ND	0.093 ND	0.14 ND	< 9.07E-02	< 2.09E-07
4,4'-DDE	0.039 ND	0.052 J	0.028 ND	< 3.42E-02	< 7.85E-08
4,4'-DDT	0.023 ND	0.063 J,COL	0.026 J	< 3.22E-02	< 7.39E-08
Dieldrin	0.013 ND	0.015 ND	0.012 ND	< 1.15E-02	< 2.64E-08
Endosulfan I	0.013 ND	0.018 ND	0.014 ND	< 1.29E-02	< 2.97E-08
Endosulfan II	0.014 ND	0.06 J,COL	0.018 ND	< 2.64E-02	< 6.07E-08
Endosulfan sulfate	0.023 ND	0.013 ND	0.016 ND	< 1.49E-02	< 3.43E-08
Endrin	0.05 ND	0.063 ND	0.051 ND	< 4.71E-02	< 1.08E-07
Heptachlor	0.016 ND	0.013 ND	0.02 J,COL	< 1.41E-02	< 3.23E-08
Methoxychlor	0.038 ND	0.11 ND	0.037 ND	< 5.31E-02	< 1.22E-07
Special Target Analytes					
Chlorobenzilate	0.083 ND	0.093 ND	0.15 J,COL	< 9.36E-02	< 2.15E-07
Endrin aldehyde	0.018 ND	0.04 ND	0.02 J,B,COL	< 2.24E-02	< 5.15E-08
Endrin ketone	0.017 ND	0.017 ND	0.025 ND	< 1.69E-02	< 3.89E-08
Heptachlor epoxide	0.015 ND	0.042 J,COL	0.012 ND	< 1.98E-02	< 4.55E-08
Diallate	11 ND	9.7 ND	0.78 ND	< 6.17E+00	< 1.42E-05
Total PAHs					
Total PAHs	< 11.66	10.591	1.502	< 6.82E+00	< 1.57E-05

NOTE: All concentrations in this table are uncorrected for oxygen concentration.

(a) Stack gas sample volume

122.990 dry standard cubic feet

3.48 dry standard cubic meters

(b) Stack gas flow rate

4,870 dry standard cubic feet per minute

2.30 dry standard cubic meters per second

(c) For non-detects, stack concentrations and emissions are calculated using one half of the detection limit.

OCP Compound Emission Results - Run 2

OCP Compound	Front Half Analytical Result (ug/sample)	Back Half Analytical Result (ug/sample)	Condensate Analytical Result (ug/sample)	Stack (a,b,c) Concentration (ug/dscm)	Emission Rate (g/s)
Standard Target Analytes					
Aldrin	0.036 ND	0.014 ND	0.034 ND	< 2.52E-02	< 4.62E-08
a-BHC	0.026 ND	0.022 ND	0.023 J	< 2.13E-02	< 3.91E-08
b-BHC	0.033 ND	0.063 ND	0.052 J,COL	< 4.45E-02	< 8.14E-08
g-BHC (Lindane)	0.014 ND	0.014 ND	0.012 ND	< 1.20E-02	< 2.20E-08
d-BHC	0.015 ND	0.019 ND	0.11 COL	< 4.33E-02	< 7.92E-08
a-Chlordane	0.013 ND	0.028 J,COL	0.014 ND	< 1.65E-02	< 3.03E-08
g-Chlordane	0.078 ND	0.043 ND	0.018 ND	< 4.18E-02	< 7.65E-08
4,4'-DDD	0.083 ND	0.093 ND	0.14 ND	< 9.49E-02	< 1.74E-07
4,4'-DDE	0.039 ND	0.052 J	0.028 ND	< 3.57E-02	< 6.55E-08
4,4'-DDT	0.023 ND	0.012 ND	0.022 ND	< 1.71E-02	< 3.14E-08
Dieldrin	0.013 ND	0.015 ND	0.012 ND	< 1.20E-02	< 2.20E-08
Endosulfan I	0.013 ND	0.018 ND	0.014 ND	< 1.35E-02	< 2.48E-08
Endosulfan II	0.014 ND	0.023 ND	0.018 ND	< 1.65E-02	< 3.03E-08
Endosulfan sulfate	0.023 ND	0.013 ND	0.016 ND	< 1.56E-02	< 2.86E-08
Endrin	0.05 ND	0.063 ND	0.051 ND	< 4.93E-02	< 9.02E-08
Heptachlor	0.016 ND	0.013 ND	0.11 COL	< 4.18E-02	< 7.65E-08
Methoxychlor	0.038 ND	0.11 ND	0.035 ND	< 5.50E-02	< 1.01E-07
Special Target Analytes					
Chlorobenzilate	0.083 ND	0.093 ND	0.13 ND	< 9.19E-02	< 1.68E-07
Endrin aldehyde	0.018 ND	0.04 ND	0.18 B,COL	< 7.15E-02	< 1.31E-07
Endrin ketone	0.017 ND	0.017 ND	0.025 ND	< 1.77E-02	< 3.25E-08
Heptachlor epoxide	0.015 ND	0.015 ND	0.025 J,COL	< 1.65E-02	< 3.03E-08
Diallate	11 ND	9.7 ND	0.78 ND	< 6.45E+00	< 1.18E-05
Total PAHs					
Total PAHs	< 11.66	10.48	1.849	< 7.21E+00	< 1.32E-05

NOTE: All concentrations in this table are uncorrected for oxygen concentration.

(a) Stack gas sample volume

117.540 dry standard cubic feet

3.33 dry standard cubic meters

(b) Stack gas flow rate

3,880 dry standard cubic feet per minute

1.83 dry standard cubic meters per second

(c) For non-detects, stack concentrations and emissions are calculated using one half of the detection limit.

OCP Compound Emission Results - Run 3

OCP Compound	Front Half Analytical Result (ug/sample)	Back Half Analytical Result (ug/sample)	Condensate Analytical Result (ug/sample)	Stack (a,b,c) Concentration (ug/dscm)	Emission Rate (g/s)
Standard Target Analytes					
Aldrin	0.036 ND	0.014 ND	0.034 ND	< 2.36E-02	< 4.54E-08
a-BHC	0.026 ND	0.022 ND	0.016 ND	< 1.80E-02	< 3.46E-08
b-BHC	0.033 ND	0.074 J,COL	0.035 J,COL	< 3.99E-02	< 7.68E-08
g-BHC (Lindane)	0.014 ND	0.014 ND	0.012 ND	< 1.12E-02	< 2.16E-08
d-BHC	0.015 ND	0.019 ND	0.078 J,COL	< 3.15E-02	< 6.06E-08
a-Chlordane	0.013 ND	0.016 ND	0.014 ND	< 1.21E-02	< 2.33E-08
g-Chlordane	0.078 ND	0.043 ND	0.018 ND	< 3.90E-02	< 7.52E-08
4,4'-DDD	0.083 ND	0.26 J,COL	0.14 ND	< 1.36E-01	< 2.61E-07
4,4'-DDE	0.039 ND	0.047 ND	0.028 ND	< 3.20E-02	< 6.17E-08
4,4'-DDT	0.023 ND	0.021 ND	0.023 ND	< 1.88E-02	< 3.62E-08
Dieldrin	0.013 ND	0.015 ND	0.012 ND	< 1.12E-02	< 2.16E-08
Endosulfan I	0.013 ND	0.018 ND	0.014 ND	< 1.26E-02	< 2.43E-08
Endosulfan II	0.014 ND	0.023 ND	0.018 ND	< 1.54E-02	< 2.98E-08
Endosulfan sulfate	0.023 ND	0.013 ND	0.016 ND	< 1.46E-02	< 2.81E-08
Endrin	0.05 ND	0.063 ND	0.051 ND	< 4.61E-02	< 8.87E-08
Heptachlor	0.016 ND	0.013 ND	0.056 J,COL	< 2.39E-02	< 4.60E-08
Methoxychlor	0.038 ND	0.11 ND	0.037 ND	< 5.20E-02	< 1.00E-07
Special Target Analytes					
Chlorobenzilate	0.083 ND	0.097 J,COL	0.14 ND	< 8.99E-02	< 1.73E-07
Endrin aldehyde	0.018 ND	0.04 ND	0.022 J,B,COL	< 2.25E-02	< 4.33E-08
Endrin ketone	0.017 ND	0.017 ND	0.025 ND	< 1.66E-02	< 3.19E-08
Heptachlor epoxide	0.015 ND	0.015 ND	0.013 J,COL	< 1.21E-02	< 2.33E-08
Diallate	11 ND	9.7 ND	0.78 ND	< 6.03E+00	< 1.16E-05
	0	0	0	0.00E+00	0.00E+00
	0	0	0	0.00E+00	0.00E+00
	0	0	0	0.00E+00	0.00E+00
	0	0	0	0.00E+00	0.00E+00
	0	0	0	0.00E+00	0.00E+00
	0	0	0	0.00E+00	0.00E+00
	0	0	0	0.00E+00	0.00E+00
	0	0	0	0.00E+00	0.00E+00
	0	0	0	0.00E+00	0.00E+00
Total PAHs	< 11.66	10.654	1.582	< 6.71E+00	< 1.29E-05

NOTE: All concentrations in this table are uncorrected for oxygen concentration.

(a) Stack gas sample volume

125.710 dry standard cubic feet

(b) Stack gas flow rate

3.56 dry standard cubic meters

4,080 dry standard cubic feet per minute

1.93 dry standard cubic meters per second

(c) For non-detects, stack concentrations and emissions are calculated using one half of the detection limit.

PAH Compound Emission Results - Run 1

PAH Compound	Front Half Analytical Result (ng/sample)	Back Half Analytical Result (ng/sample)	Condensate Analytical Result (ng/sample)	Stack (a,b,c) Concentration (ug/dscm)	Emission Rate (g/s)
Standard Target Analytes					
Acenaphthene	3.4 BJ	3.5 BJ	1.5 J	2.29E-03	5.51E-09
Acenaphthylene	9.1 J	14 J	0.29 ND	< 6.39E-03	< 1.53E-08
Anthracene	4 J	28	7.8 J	1.09E-02	2.61E-08
Benzo(a)anthracene	1.7 BJ	5.4 J	0.48 ND	< 2.07E-03	< 4.97E-09
Benzo(b)fluoranthene	4.2 BJ	40 B	5.8 J	1.37E-02	3.28E-08
Benzo(k)fluoranthene	3.1 BJ	4.3 J	5.5 J	3.52E-03	8.46E-09
Benzo(g,h,i)perylene	5.6 J	4 J	15 BJ	6.72E-03	1.61E-08
Benzo(a)pyrene	2.7 BJ	2.2 BJ	3.4 BJ	2.27E-03	5.45E-09
Benzo(e)pyrene	4.5 BJ	4.4 BJ	5.1 BJ	3.82E-03	9.18E-09
Chrysene	3.5 BJ	18 J	4.7 BJ	7.15E-03	1.72E-08
Dibenzo(a,h)anthracene	0.32 ND	0.5 ND	0.65 ND	< 4.01E-04	< 9.64E-10
Fluoranthene	27 B	100 B	26 B	4.18E-02	1.00E-07
Fluorene	15 BJ	11 BJ	3.3 J	8.00E-03	1.92E-08
Indeno(1,2,3-cd)pyrene	3.3 BJ	3.8 J	4.7 BJ	3.22E-03	7.74E-09
2-Methylnaphthalene	31 BJ	80 BJ	13 BJ	3.39E-02	8.13E-08
Naphthalene	40 BJ	880 B	30 BJ	2.59E-01	6.23E-07
Phenanthrene	140 B	300 B	39 BJ	1.31E-01	3.14E-07
Pyrene	25 BJ	110 B	20 BJ	4.23E-02	1.02E-07
Special Target Analytes					
Perylene	0.91 ND	3.5 BJ	1.7 ND	< 1.67E-03	< 4.01E-09
Total PAHs					
Total PAHs	< 324.33	1612.6	187.92	< 5.80E-01	< 1.39E-06

NOTE: All concentrations in this table are uncorrected for oxygen concentration.

(a) Stack gas sample volume

129.310 dry standard cubic feet

3.66 dry standard cubic meters

(b) Stack gas flow rate

5,090 dry standard cubic feet per minute

2.40 dry standard cubic meters per second

(c) For non-detects, stack concentrations and emissions are calculated using one half of the detection limit.

PAH Compound Emission Results - Run 2

PAH Compound	Front Half Analytical Result (ng/sample)	Back Half Analytical Result (ng/sample)	Condensate Analytical Result (ng/sample)	Stack (a,b,c) Concentration (ug/dscm)	Emission Rate (g/s)
Standard Target Analytes					
Acenaphthene	1.1 BJ	3.3 BJ	1.5 J	1.67E-03	3.05E-09
Acenaphthylene	0.28 ND	7.8 J	0.23 ND	< 2.35E-03	< 4.29E-09
Anthracene	0.44 ND	8.1 J	3.5 J	< 3.41E-03	< 6.22E-09
Benzo(a)anthracene	0.36 ND	0.35 ND	0.45 ND	< 3.28E-04	< 5.99E-10
Benzo(b)fluoranthene	0.83 ND	55 B	3.9 J	< 1.69E-02	< 3.09E-08
Benzo(k)fluoranthene	1.1 ND	4.6 J	1.2 ND	< 1.95E-03	< 3.57E-09
Benzo(g,h,i)perylene	0.75 ND	4.4 J	18 BJ	< 6.55E-03	< 1.20E-08
Benzo(a)pyrene	1.4 ND	1.7 ND	2.7 BJ	< 1.64E-03	< 3.00E-09
Benzo(e)pyrene	1.1 ND	1.5 ND	5.3 BJ	< 2.23E-03	< 4.08E-09
Chrysene	0.39 ND	21	3.1 BJ	< 6.93E-03	< 1.27E-08
Dibenzo(a,h)anthracene	0.41 ND	0.92 ND	0.45 ND	< 5.04E-04	< 9.20E-10
Fluoranthene	4.4 BJ	32 B	18 BJ	1.54E-02	2.81E-08
Fluorene	3.3 BJ	10 BJ	2.8 J	4.55E-03	8.32E-09
Indeno(1,2,3-cd)pyrene	0.76 ND	1.4 ND	5.3 BJ	< 2.11E-03	< 3.86E-09
2-Methylnaphthalene	12 BJ	52 BJ	13 BJ	2.18E-02	3.98E-08
Naphthalene	23 BJ	1900 B	34 BJ	5.54E-01	1.01E-06
Phenanthrene	25 BJ	96 B	27 BJ	4.19E-02	7.65E-08
Pyrene	6.4 BJ	30 BJ	15 BJ	1.45E-02	2.66E-08
Special Target Analytes					
Perylene	1.4 ND	1.6 ND	1.3 ND	< 1.22E-03	< 2.22E-09
Total PAHs					
Total PAHs	< 84.42	2231.67	156.73	< 7.00E-01	< 1.28E-06

NOTE: All concentrations in this table are uncorrected for oxygen concentration.

(a) Stack gas sample volume

124.810 dry standard cubic feet

3.53 dry standard cubic meters

(b) Stack gas flow rate

3,870 dry standard cubic feet per minute

1.83 dry standard cubic meters per second

(c) For non-detects, stack concentrations and emissions are calculated using one half of the detection limit.

PAH Compound Emission Results - Run 3

PAH Compound	Front Half Analytical Result (ng/sample)	Back Half Analytical Result (ng/sample)	Condensate Analytical Result (ng/sample)	Stack (a,b,c) Concentration (ug/dscm)	Emission Rate (g/s)
Standard Target Analytes					
Acenaphthene	2 BJ	6.5 BJ	1.3 ND	< 2.87E-03	< 5.22E-09
Acenaphthylene	3.3 J	5.9 J	0.32 ND	< 2.79E-03	< 5.07E-09
Anthracene	0.37 ND	11 J	0.41 ND	< 3.45E-03	< 6.27E-09
Benzo(a)anthracene	0.21 ND	6.1 J	0.37 ND	< 1.96E-03	< 3.56E-09
Benzo(b)fluoranthene	4.1 BJ	40 B	2.3 J	1.36E-02	2.47E-08
Benzo(k)fluoranthene	1.1 ND	3.9 J	4.7 J	< 2.84E-03	< 5.16E-09
Benzo(g,h,i)perylene	7.5 J	3.7 J	0.67 ND	< 3.48E-03	< 6.32E-09
Benzo(a)pyrene	4.3 BJ	1.1 ND	1.9 ND	< 2.14E-03	< 3.89E-09
Benzo(e)pyrene	3.2 BJ	2.5 BJ	1.6 ND	< 2.14E-03	< 3.89E-09
Chrysene	0.23 ND	5.7 J	0.43 ND	< 1.86E-03	< 3.39E-09
Dibenzo(a,h)anthracene	0.35 ND	0.72 ND	0.65 ND	< 5.04E-04	< 9.16E-10
Fluoranthene	7.3 BJ	25 B	3.4 BJ	1.05E-02	1.90E-08
Fluorene	6.4 BJ	11 BJ	1.8 J	5.63E-03	1.02E-08
Indeno(1,2,3-cd)pyrene	4.1 BJ	3.1 J	0.68 J	2.31E-03	4.20E-09
2-Methylnaphthalene	17 BJ	67 BJ	15 BJ	2.90E-02	5.27E-08
Naphthalene	35 BJ	17000 B	72 BJ	5.01E+00	9.11E-06
Phenanthrene	49 B	65 B	5.8 BJ	3.51E-02	6.38E-08
Pyrene	5 BJ	28 BJ	3.1 BJ	1.06E-02	1.92E-08
Special Target Analytes					
Perylene	1.1 ND	66 B	1.8 ND	< 2.02E-02	< 3.67E-08
Total PAHs					
Total PAHs	< 151.56	17352.22	118.23	< 5.16E+00	< 9.38E-06

NOTE: All concentrations in this table are uncorrected for oxygen concentration.

(a) Stack gas sample volume

120.520 dry standard cubic feet

3.41 dry standard cubic meters

(b) Stack gas flow rate

3,850 dry standard cubic feet per minute

1.82 dry standard cubic meters per second

(c) For non-detects, stack concentrations and emissions are calculated using one half of the detection limit.

PCB Compound Emission Results - Run 1

PCB Compound	Front Half Analytical Result (ng/sample)	Back Half Analytical Result (ng/sample)	Condensate Analytical Result (ng/sample)	Stack (a,b,c) Concentration (ng/dscm)	Emission Rate (g/s)
Co-Planar PCBs					
3,4,3',4'-Tetrachlorobiphenyl (IUPAC 77)	0.03 QB	0.36	0.021 QJ	1.12E-01	2.70E-10
3,4,4',5-Tetrachlorobiphenyl (IUPAC 81)	0.0083 ND	0.06 QJ	0.01 ND	< 2.14E-02	< 5.14E-11
2,3,4,3',4'-Pentachlorobiphenyl (IUPAC 105)	0.022 QJ	0.067 J	0.035 BJ	3.39E-02	8.13E-11
2,3,4,5,4'-Pentachlorobiphenyl (IUPAC 114)	0.0069 ND	0.011 ND	0.0065 ND	< 6.66E-03	< 1.60E-11
2,4,5,3',4'-Pentachlorobiphenyl (IUPAC 118)	0.087 J	0.13 J	0.078 QBJ	8.06E-02	1.94E-10
3,4,5,2',4'-Pentachlorobiphenyl (IUPAC 123)	0.0075 ND	0.022 J	0.0067 ND	< 9.88E-03	< 2.37E-11
3,4,5,3',4'-Pentachlorobiphenyl (IUPAC 126)	0.0073 ND	0.091 QJ	0.0072 ND	< 2.88E-02	< 6.92E-11
2,3,4,5,3',4'-Hexachlorobiphenyl (IUPAC 156)	0.01 ND	0.061 QCJ	0.013 ND	< 2.29E-02	< 5.51E-11
2,3,4,3',4',5'-Hexachlorobiphenyl (IUPAC 157)	0.01 ND	0.061 QCJ	0.013 ND	< 2.29E-02	< 5.51E-11
2,4,5,3',4',5'-Hexachlorobiphenyl (IUPAC 167)	0.0073 ND	0.027 J	0.0091 ND	< 1.19E-02	< 2.85E-11
3,4,5,3',4',5'-Hexachlorobiphenyl (IUPAC 169)	0.0073 ND	0.02 ND	0.0098 ND	< 1.01E-02	< 2.43E-11
2,3,4,5,3',4',5'-Heptachlorobiphenyl (IUPAC 189)	0.0066 ND	0.013 ND	0.0061 ND	< 7.02E-03	< 1.69E-11
Total PCB Homologs					
Total Monochlorobiphenyls	0.67 B	6 B	0.23 BJ	1.88E+00	4.53E-09
Total Dichlorobiphenyls	9.6 QB	9.8 QB	2 BQ	5.84E+00	1.40E-08
Total Trichlorobiphenyls	11 QB	8 QB	3.8 BQ	6.23E+00	1.50E-08
Total Tetrachlorobiphenyls	2.2 QB	4 BQ	2.5 BQ	2.38E+00	5.71E-09
Total Pentachlorobiphenyls	0.49 QJB	1 QB	0.75 JQB	6.12E-01	1.47E-09
Total Hexachlorobiphenyls	0.093 QJ	0.33 QBJ	0.23 QBJ	1.78E-01	4.28E-10
Total Heptachlorobiphenyls	0.21 ND	0.13 QJ	0.024 QBJ	< 9.94E-02	< 2.39E-10
Total Octachlorobiphenyls	0.1 ND	0.16 ND	0.14 ND	< 1.09E-01	< 2.62E-10
Total Nonachlorobiphenyls	0.029 ND	0.054 ND	0.05 ND	< 3.63E-02	< 8.73E-11
Total Decachlorobiphenyl	0.0096 ND	0.016 ND	0.025 ND	< 1.38E-02	< 3.32E-11
Total PCBs	< 24.4016	29.49	9.749	< 1.74E+01	< 4.18E-08

NOTE: All concentrations in this table are uncorrected for oxygen concentration.

(a) Stack gas sample volume

129.310 dry standard cubic feet

3.66 dry standard cubic meters

(b) Stack gas flow rate

5,090 dry standard cubic feet per minute

2.40 dry standard cubic meters per second

(c) For non-detects, stack concentrations and emissions are calculated using one half of the detection limit.

PCB Compound Emission Results - Run 2

PCB Compound	Front Half Analytical Result (ng/sample)	Back Half Analytical Result (ng/sample)	Condensate Analytical Result (ng/sample)	Stack (a,b,c) Concentration (ng/dscm)	Emission Rate (g/s)
Co-Planar PCBs					
3,4,3',4'-Tetrachlorobiphenyl (IUPAC 77)	0.0073 ND	0.17 J	0.018 QJ	< 5.53E-02	< 1.01E-10
3,4,4',5-Tetrachlorobiphenyl (IUPAC 81)	0.0068 ND	0.019 QJ	0.0058 ND	< 8.94E-03	< 1.63E-11
2,3,4,3',4'-Pentachlorobiphenyl (IUPAC 105)	0.0061 ND	0.049 QJ	0.039 BJ	< 2.66E-02	< 4.86E-11
2,3,4,5,4'-Pentachlorobiphenyl (IUPAC 114)	0.0058 ND	0.01 ND	0.0075 QJ	< 6.59E-03	< 1.20E-11
2,4,5,3',4'-Pentachlorobiphenyl (IUPAC 118)	0.018 QJ	0.097 QJ	0.076 BJ	5.40E-02	9.87E-11
3,4,5,2',4'-Pentachlorobiphenyl (IUPAC 123)	0.0063 ND	0.01 ND	0.0036 ND	< 5.63E-03	< 1.03E-11
3,4,5,3',4'-Pentachlorobiphenyl (IUPAC 126)	0.0062 ND	0.069 J	0.0041 ND	< 2.24E-02	< 4.10E-11
2,3,4,5,3',4'-Hexachlorobiphenyl (IUPAC 156)	0.0091 ND	0.048 CJ	0.0069 ND	< 1.81E-02	< 3.31E-11
2,3,4,3',4',5'-Hexachlorobiphenyl (IUPAC 157)	0.0091 ND	0.048 CJ	0.0069 ND	< 1.81E-02	< 3.31E-11
2,4,5,3',4',5'-Hexachlorobiphenyl (IUPAC 167)	0.0063 ND	0.024 J	0.0049 ND	< 9.96E-03	< 1.82E-11
3,4,5,3',4',5'-Hexachlorobiphenyl (IUPAC 169)	0.0062 ND	0.019 ND	0.006 ND	< 8.83E-03	< 1.61E-11
2,3,4,5,3',4',5'-Heptachlorobiphenyl (IUPAC 189)	0.006 ND	0.011 ND	0.0034 ND	< 5.77E-03	< 1.05E-11
Total PCB Homologs					
Total Monochlorobiphenyls	0.061 QBJ	1.2 B	0.24 BJ	4.25E-01	7.76E-10
Total Dichlorobiphenyls	1.5 QB	6.4 QB	1.6 QB	2.69E+00	4.91E-09
Total Trichlorobiphenyls	1.6 BJQ	5.5 QB	2.9 BQ	2.83E+00	5.17E-09
Total Tetrachlorobiphenyls	0.38 QJB	2.8 BQ	2.1 BQ	1.49E+00	2.73E-09
Total Pentachlorobiphenyls	0.03 QJ	0.74 JQB	0.74 JQB	4.27E-01	7.80E-10
Total Hexachlorobiphenyls	0.028 QJ	0.43 BJQ	0.27 BJQ	2.06E-01	3.76E-10
Total Heptachlorobiphenyls	0.19 ND	0.16 QJ	0.03 JQB	< 1.08E-01	< 1.96E-10
Total Octachlorobiphenyls	0.089 ND	0.014 QJ	0.0099 QJ	< 3.19E-02	< 5.83E-11
Total Nonachlorobiphenyls	0.028 ND	0.039 ND	0.027 ND	< 2.66E-02	< 4.86E-11
Total Decachlorobiphenyl	0.0082 ND	0.02 QJ	0.011 ND	< 1.11E-02	< 2.03E-11
Total PCBs	< 3.9142	17.303	7.9279	< 8.25E+00	< 1.51E-08

NOTE: All concentrations in this table are uncorrected for oxygen concentration.

(a) Stack gas sample volume

124.810 dry standard cubic feet

3.53 dry standard cubic meters

(b) Stack gas flow rate

3,870 dry standard cubic feet per minute

1.83 dry standard cubic meters per second

(c) For non-detects, stack concentrations and emissions are calculated using one half of the detection limit.

PCB Compound Emission Results - Run 3

PCB Compound	Front Half Analytical Result (ng/sample)	Back Half Analytical Result (ng/sample)	Condensate Analytical Result (ng/sample)	Stack (a,b,c) Concentration (ng/dscm)	Emission Rate (g/s)
Co-Planar PCBs					
3,4,3',4'-Tetrachlorobiphenyl (IUPAC 77)	0.017 QJ	0.12 QJ	0.0071 ND	< 4.22E-02	< 7.67E-11
3,4,4',5-Tetrachlorobiphenyl (IUPAC 81)	0.0079 ND	0.061 ND	0.0064 ND	< 2.21E-02	< 4.01E-11
2,3,4,3',4'-Pentachlorobiphenyl (IUPAC 105)	0.0069 ND	0.093 J	0.017 QBJ	< 3.42E-02	< 6.22E-11
2,3,4,5,4'-Pentachlorobiphenyl (IUPAC 114)	0.0066 ND	0.012 ND	0.0081 QJ	< 7.82E-03	< 1.42E-11
2,4,5,3',4'-Pentachlorobiphenyl (IUPAC 118)	0.031 J	0.16 J	0.023 QBJ	6.27E-02	1.14E-10
3,4,5,2',4'-Pentachlorobiphenyl (IUPAC 123)	0.0069 ND	0.012 ND	0.017 QBJ	< 1.05E-02	< 1.91E-11
3,4,5,3',4'-Pentachlorobiphenyl (IUPAC 126)	0.0074 ND	0.043 QJ	0.0053 ND	< 1.63E-02	< 2.97E-11
2,3,4,5,3',4'-Hexachlorobiphenyl (IUPAC 156)	0.0091 ND	0.056 CJ	0.012 QCJ	< 2.26E-02	< 4.10E-11
2,3,4,3',4',5'-Hexachlorobiphenyl (IUPAC 157)	0.0091 ND	0.056 CJ	0.012 QCJ	< 2.26E-02	< 4.10E-11
2,4,5,3',4',5'-Hexachlorobiphenyl (IUPAC 167)	0.0067 ND	0.021 QJ	0.0058 ND	< 9.81E-03	< 1.78E-11
3,4,5,3',4',5'-Hexachlorobiphenyl (IUPAC 169)	0.0078 ND	0.021 ND	0.0083 ND	< 1.09E-02	< 1.98E-11
2,3,4,5,3',4',5'-Heptachlorobiphenyl (IUPAC 189)	0.0065 ND	0.013 ND	0.0045 ND	< 7.03E-03	< 1.28E-11
Total PCB Homologs					
Total Monochlorobiphenyls	0.18 QBJ	0.91 B	0.19 BJ	3.75E-01	6.81E-10
Total Dichlorobiphenyls	2.6 BQ	4.9 QB	0.68 QBJ	2.40E+00	4.36E-09
Total Trichlorobiphenyls	2.6 BQ	6.1 BQ	0.88 QBJ	2.81E+00	5.10E-09
Total Tetrachlorobiphenyls	0.51 QBJ	2.9 BQ	0.73 JQB	1.21E+00	2.20E-09
Total Pentachlorobiphenyls	0.058 QJ	0.95 JQB	0.28 QJB	3.77E-01	6.86E-10
Total Hexachlorobiphenyls	0.047 JQ	0.47 QBJ	0.1 QBJ	1.81E-01	3.29E-10
Total Heptachlorobiphenyls	0.2 ND	0.15 QJ	0.21 ND	< 1.64E-01	< 2.98E-10
Total Octachlorobiphenyls	0.094 ND	0.15 ND	0.1 ND	< 1.01E-01	< 1.83E-10
Total Nonachlorobiphenyls	0.03 ND	0.052 ND	0.032 ND	< 3.34E-02	< 6.07E-11
Total Decachlorobiphenyl	0.0086 ND	0.015 ND	0.013 ND	< 1.07E-02	< 1.95E-11
Total PCBs					
Total PCBs	< 6.3276	16.597	3.215	< 7.66E+00	< 1.39E-08

NOTE: All concentrations in this table are uncorrected for oxygen concentration.

(a) Stack gas sample volume

120.520 dry standard cubic feet

3.41 dry standard cubic meters

(b) Stack gas flow rate

3,850 dry standard cubic feet per minute

1.82 dry standard cubic meters per second

(c) For non-detects, stack concentrations and emissions are calculated using one half of the detection limit.

Semivolatile Organic Compound Emission Results - Run 1

Semivolatile Compound	Front Half Analytical Result (ug/sample)	Back Half Analytical Result (ug/sample)	Condensate Analytical Result (ug/sample)	Stack (a,b,c) Concentration (ug/dscm)	Emission Rate (g/s)
Standard Target Analytes					
Acenaphthene	0.5 ND	0.5 ND	1.8 ND	< 8.04E-01	< 1.85E-06
Acenaphthylene	0.5 ND	0.5 ND	1.5 ND	< 7.18E-01	< 1.65E-06
Benzyl alcohol	35 ND	35 ND	1.8 ND	< 2.06E-01	< 4.74E-06
Bis(2-chloroethoxy) methane	0.59 ND	0.5 ND	1.8 ND	< 8.30E-01	< 1.91E-06
Bis-(2-chloroethyl) ether	0.76 ND	0.56 ND	1.5 ND	< 8.10E-01	< 1.86E-06
Bis(2-ethylhexyl) phthalate	5.7 J	10 ND	18 J	< 9.68E+00	< 2.22E-06
4-Bromophenyl-phenyl ether	0.53 ND	0.5 ND	1.3 ND	< 6.69E-01	< 1.54E-06
Butylbenzylphthalate	1.1 ND	0.61 ND	2.1 ND	< 1.09E+00	< 2.51E-06
4-Chloroaniline	1.2 ND	6 ND	7.3 ND	< 4.16E+00	< 9.57E-06
4-Chloro-3-methylphenol	1 ND	0.62 ND	6 ND	< 2.19E+00	< 5.03E-06
2-Chloronaphthalene	0.5 ND	0.5 ND	1.3 ND	< 6.60E-01	< 1.52E-06
2-Chlorophenol	0.98 ND	0.5 ND	1.5 ND	< 8.56E-01	< 1.97E-06
4-Chlorophenyl-phenyl ether	0.51 ND	0.5 ND	2.9 ND	< 1.12E+00	< 2.58E-06
Dibenzofuran	0.53 ND	0.5 ND	2.7 ND	< 1.07E+00	< 2.46E-06
Di-n-butylphthalate	0.71 ND	10 ND	2.1 ND	< 3.69E+00	< 8.45E-06
1,2-Dichlorobenzene	0.84 ND	0.51 ND	1.6 ND	< 8.47E-01	< 1.95E-06
1,3-Dichlorobenzene	1.2 ND	0.57 ND	1.3 ND	< 8.81E-01	< 2.03E-06
1,4-Dichlorobenzene	1.1 ND	0.53 ND	1.9 ND	< 1.01E+00	< 2.33E-06
3,3'-Dichlorobenzidine	2.7 ND	7.4 ND	7.1 ND	< 4.94E+00	< 1.14E-05
2,4-Dichlorophenol	1.5 ND	0.5 ND	2.1 ND	< 1.18E+00	< 2.71E-06
Diethyl phthalate	1.5 ND	0.73 ND	1.3 ND	< 1.01E+00	< 2.33E-06
2,4-Dimethylphenol	2.9 ND	6.3 ND	1.4 ND	< 3.04E+00	< 7.00E-06
Dimethylphthalate	0.63 ND	0.5 ND	1.2 ND	< 6.69E-01	< 1.54E-06
4,6-Dinitro-2-methylphenol	5 ND	8.7 ND	1.3 ND	< 4.31E+00	< 9.90E-06
2,4-Dinitrophenol	5.9 ND	22 ND	3.7 ND	< 9.07E+00	< 2.09E-05
2,4-Dinitrotoluene	1.6 ND	0.5 ND	2.5 ND	< 1.32E+00	< 3.04E-06
2,6-Dinitrotoluene	1.3 ND	0.5 ND	1.9 ND	< 1.08E+00	< 2.44E-06
Di-n-octyl phthalate	2.1 ND	0.56 ND	2.3 ND	< 1.44E+00	< 3.27E-06
Hexachlorobenzene	0.56 ND	0.5 ND	2.4 ND	< 9.93E-01	< 2.28E-06
Hexachlorobutadiene	1.4 ND	0.74 ND	1.8 ND	< 1.13E+00	< 2.60E-06
Hexachlorocyclopentadiene	10 ND	10 ND	6 ND	< 7.46E+00	< 1.72E-05
Hexachloroethane	2.5 ND	0.54 ND	1.8 ND	< 1.39E+00	< 3.19E-06
Isophrone	0.66 ND	0.5 ND	1.6 ND	< 7.92E-01	< 1.82E-06
2-Methylphenol	2.3 ND	3 ND	1.9 ND	< 2.07E+00	< 4.75E-06
2-Nitroaniline	0.56 ND	0.5 ND	2.6 ND	< 1.05E+00	< 2.42E-06
3-Nitroaniline	3.8 ND	2 ND	4.3 ND	< 2.90E+00	< 6.67E-06
4-Nitroaniline	2.3 ND	2 ND	3.5 ND	< 2.24E+00	< 5.15E-06
Nitrobenzene	0.73 ND	0.5 ND	1.5 ND	< 7.84E-01	< 1.80E-06
2-Nitrophenol	3.2 ND	0.5 ND	2.4 ND	< 1.75E+00	< 4.03E-06
4-Nitrophenol	3.3 ND	3.3 ND	3.5 ND	< 2.99E+00	< 6.67E-06
N-Nitrosodiphenylamine	0.6 ND	0.87 ND	1.3 ND	< 7.95E-01	< 1.83E-06
N-Nitroso-di-n-propylamine	0.73 ND	0.5 ND	2.1 ND	< 9.56E-01	< 2.20E-06
2,2'-oxybis (1-Chloropropane)	1 ND	0.76 ND	1.6 ND	< 9.65E-01	< 2.22E-06
Pentachlorophenol	25 ND	25 ND	3.2 ND	< 1.53E+01	< 3.51E-05
Phenol	1.1 ND	0.9 ND	2 ND	< 1.15E+00	< 2.64E-06
1,2,4-Trichlorobenzene	0.73 ND	0.59 ND	2 ND	< 9.53E-01	< 2.19E-06
2,4,5-Trichlorophenol	2.3 ND	1.3 ND	2 ND	< 1.61E+00	< 3.70E-06
2,4,6-Trichlorophenol	1.4 ND	0.75 ND	2.3 ND	< 1.28E+00	< 2.94E-06
	0	0	0	< 0.00E+00	< 0.00E+00
Special Target Analytes					
Acetophenone	0.77 ND	3.9 J	2.4 ND	< 2.03E+00	< 4.67E-06
Aniline	0.95 ND	7.3 ND	17 ND	< 7.25E+00	< 1.67E-05
Anthracene	0.51 ND	0.5 ND	1.5 ND	< 7.21E-01	< 1.66E-06
Benzaldehyde	2.6 ND	6.4 J	2 ND	< 3.16E+00	< 7.26E-06
Benzzidine	51 ND	51 ND	60 ND	< 4.65E+01	< 1.07E-04
Benzo(a)anthracene	0.82 ND	0.58 ND	1.6 ND	< 8.61E-01	< 1.98E-06
Benzo(b)fluoranthene	1.4 ND	1.1 ND	3.9 ND	< 1.84E+00	< 4.22E-06
Benzo(k)fluoranthene	2.1 ND	1.6 ND	2.7 ND	< 1.84E+00	< 4.22E-06
Benzoic acid	42 ND	46 ND	8.7 ND	< 2.78E+01	< 6.38E-05
Benzonitrile	2.4 ND	1.7 ND	2.4 ND	< 1.87E+00	< 4.29E-06
Benzo(ghi)perylene	2.8 ND	0.62 ND	2 ND	< 1.56E+00	< 3.58E-06
Benzo(a)pyrene	1 ND	0.5 ND	1.6 ND	< 8.90E-01	< 2.05E-06
Carbazole	0.76 ND	0.64 ND	2 ND	< 9.76E-01	< 2.24E-06
Chrysene	0.88 ND	0.64 ND	1.2 ND	< 7.81E-01	< 1.80E-06
Dibenz(a,h)anthracene	2 ND	0.5 ND	2.6 ND	< 1.49E+00	< 3.43E-06
1,3-Dinitrobenzene	0.59 ND	0.52 ND	2.7 ND	< 1.09E+00	< 2.51E-06
Diphenylamine	0.5 ND	0.5 ND	2.7 ND	< 1.06E+00	< 2.44E-06
1,2-Diphenylhydrazine	0.63 ND	0.5 ND	1.3 ND	< 6.99E-01	< 1.60E-06
Fluoranthene	0.5 ND	0.5 ND	1.6 ND	< 7.46E-01	< 1.72E-06
Fluorene	0.51 ND	0.5 ND	2.5 ND	< 1.01E+00	< 2.32E-06
Indeno(1,2,3-cd)pyrene	2.1 ND	0.54 ND	2.1 ND	< 1.36E+00	< 3.13E-06
2-Methylnaphthalene	0.56 ND	0.5 ND	2.1 ND	< 9.07E-01	< 2.09E-06
3 & 4-Methylphenol	2.3 ND	2 ND	2 ND	< 1.81E+00	< 4.16E-06
Naphthalene	0.5 ND	0.6 ND	1.6 ND	< 7.75E-01	< 1.78E-06
N-Nitrosodimethylamine	0.72 ND	0.5 ND	2 ND	< 9.24E-01	< 2.13E-06
Pentachlorobenzene	0.52 ND	0.5 ND	2.1 ND	< 8.96E-01	< 2.06E-06
Pentachloronitrobenzene	0.76 ND	0.5 ND	2.4 ND	< 1.05E+00	< 2.42E-06
Phenanthrene	0.51 ND	0.5 ND	1.7 ND	< 7.78E-01	< 1.79E-06
Pyrene	0.74 ND	0.53 ND	1.3 ND	< 7.38E-01	< 1.70E-06
Pyridine	0.89 ND	0.74 ND	4.9 ND	< 1.87E+00	< 4.31E-06
1,2,4,5-Tetrachlorobenzene	0.87 ND	0.5 ND	2 ND	< 9.68E-01	< 2.22E-06
Tentatively Identified Compounds					
3-Penten-2-one, 4-methyl-	95 NJ	0	230 NJ	9.33E+01	2.14E-04
Unknown (2.5254)	4.5 NJ	0	40 NJ	1.28E+01	2.94E-05
Unknown (2.7017)	7.4 NJ	0	0	2.12E+00	4.88E-06
Unknown (2.7428)	52 NJ	0	0	1.49E+01	3.43E-05
Unknown (2.9132)	5.3 NJ	0	0	1.52E+00	3.50E-06
Unknown (2.1494)	0	70 NJ	0	2.01E+01	4.62E-05
Toluene	0	26 NJ	0	7.46E+00	1.72E-05
Methane, dibromochloro-	0	75 NJ	0	2.78E+00	6.40E-06
Tetrachloroethylene	0	75 NJ	0	2.15E+01	4.95E-05
Unknown (2.6018)	0	4.1 NJ	0	1.18E+00	2.71E-06
Unknown (2.6547)	0	9.3 NJ	0	2.67E+00	6.14E-06
Heptane, 2,5-dimethyl-	0	18 NJ	24 NJ	1.21E+01	2.77E-05
Unknown (2.7781)	0	590 NJ	1400 NJ	5.71E+02	1.31E-03
Benzene, chloro-	0	420 NJ	0	1.21E+02	2.77E-04
Methane, tribromo-	0	10 NJ	0	2.87E+00	6.60E-06
Benzaldehyde, 4-ethyl-	0	5.9 NJ	0	1.69E+00	3.89E-06
Phosphine imide, P,P,P-triphen	0	4.8 NJ	0	1.38E+00	3.17E-06
3-Penten-2-one, (E)-	0	0	22 NJ	6.32E+00	1.45E-05
Unknown (2.5724)	0	0	18 NJ	5.17E+00	1.19E-05
Octane, 2-methyl-	0	0	13 NJ	3.73E+00	8.58E-06
Unknown (4.5642)	0	0	47 NJ	1.35E+01	3.10E-05
Total Semivolatiles	< 431.94	1546.65	2073.6	< 1.16E+03	< 2.67E-03

NOTE: All concentrations in this table are uncorrected for oxygen concentration.

(a) Stack gas sample volume

122,990 dry standard cubic feet

3.48 dry standard cubic meters

(b) Stack gas flow rate

4,870 dry standard cubic feet per minute

2.30 dry standard cubic meters per second

(c) For non-detects, stack concentrations and emissions are calculated using one half of the detection limit.

Semivolatile Organic Compound Emission Results - Run 2

Semivolatile Compound	Front Half Analytical Result (ug/sample)	Back Half Analytical Result (ug/sample)	Condensate Analytical Result (ug/sample)	Stack (a,b,c) Concentration (ug/dscm)	Emission Rate (g/s)
Standard Target Analytes					
Acenaphthene	0.5 ND	0.5 ND	1.7 ND	< 8.11E-01	< 1.49E-06
Acenaphthylene	0.5 ND	0.5 ND	1.4 ND	< 7.21E-01	< 1.32E-06
Benzyl alcohol	36 ND	36 ND	1.7 ND	< 2.15E-01	< 3.94E-06
Bis(2-chloroethoxy) methane	0.59 ND	0.5 ND	1.7 ND	< 8.38E-01	< 1.53E-06
Bis-(2-chloroethyl) ether	0.76 ND	0.56 ND	1.4 ND	< 8.17E-01	< 1.50E-06
Bis(2-ethylhexyl) phthalate	3.3 ND	10 ND	29	< 1.27E+01	< 2.33E-05
4-Bromophenyl-phenyl ether	0.53 ND	0.5 ND	1.2 ND	< 6.70E-01	< 1.23E-06
Butylbenzylphthalate	1.1 ND	0.61 ND	1.9 ND	< 1.08E+00	< 1.99E-06
4-Chloroaniline	1.2 ND	6 ND	6.8 ND	< 4.21E+00	< 7.70E-06
4-Chloro-3-methylphenol	1 ND	0.62 ND	5.6 ND	< 2.17E+00	< 3.97E-06
2-Chloronaphthalene	0.5 ND	0.5 ND	1.2 ND	< 6.61E-01	< 1.21E-06
2-Chlorophenol	0.98 ND	0.5 ND	1.4 ND	< 8.65E-01	< 1.58E-06
4-Chlorophenyl-phenyl ether	0.51 ND	0.5 ND	2.7 ND	< 1.11E+00	< 2.04E-06
Dibenzofuran	0.53 ND	0.5 ND	2.5 ND	< 1.06E+00	< 1.94E-06
Di-n-butylphthalate	0.71 ND	10 ND	1.9 ND	< 3.79E+00	< 6.94E-06
1,2-Dichlorobenzene	0.84 ND	0.51 ND	1.5 ND	< 8.56E-01	< 1.57E-06
1,3-Dichlorobenzene	1.2 ND	0.57 ND	1.2 ND	< 8.92E-01	< 1.63E-06
1,4-Dichlorobenzene	1.1 ND	0.53 ND	1.7 ND	< 1.00E+00	< 1.83E-06
3,3'-Dichlorobenzidine	2.7 ND	7.4 ND	6.6 ND	< 5.02E+00	< 9.19E-06
2,4-Dichlorophenol	1.5 ND	0.5 ND	2 ND	< 1.20E+00	< 2.20E-06
Diethyl phthalate	1.5 ND	0.73 ND	1.2 ND	< 1.03E+00	< 1.89E-06
2,4-Dimethylphenol	2.9 ND	6.3 ND	1.3 ND	< 3.15E+00	< 5.78E-06
Dimethylphthalate	0.63 ND	0.5 ND	1.1 ND	< 6.70E-01	< 1.23E-06
4,6-Dinitro-2-methylphenol	5 ND	8.7 ND	1.2 ND	< 4.48E+00	< 8.20E-06
2,4-Dinitrophenol	5.9 ND	22 ND	3.4 ND	< 9.40E+00	< 1.72E-05
2,4-Dinitrotoluene	1.6 ND	0.5 ND	2.3 ND	< 1.32E+00	< 2.42E-06
2,6-Dinitrotoluene	1.3 ND	0.5 ND	1.8 ND	< 1.08E+00	< 1.98E-06
Di-n-octyl phthalate	2.1 ND	0.56 ND	2.1 ND	< 1.49E+00	< 2.62E-06
Hexachlorobenzene	0.56 ND	0.5 ND	2.3 ND	< 1.01E+00	< 1.85E-06
Hexachlorobutadiene	1.4 ND	0.74 ND	1.6 ND	< 1.12E+00	< 2.06E-06
Hexachlorocyclopentadiene	10 ND	10 ND	5.6 ND	< 7.69E+00	< 1.41E-05
Hexachloroethane	2.5 ND	0.54 ND	1.7 ND	< 1.42E+00	< 2.61E-06
Isophrone	0.66 ND	0.5 ND	1.5 ND	< 7.99E-01	< 1.46E-06
2-Methylphenol	2.3 ND	3 ND	1.8 ND	< 2.13E+00	< 3.91E-06
2-Nitroaniline	0.56 ND	0.5 ND	2.4 ND	< 1.04E+00	< 1.90E-06
3-Nitroaniline	3.8 ND	2 ND	4 ND	< 2.94E+00	< 5.39E-06
4-Nitroaniline	2.3 ND	2 ND	3.3 ND	< 2.28E+00	< 4.18E-06
Nitrobenzene	0.73 ND	0.5 ND	1.4 ND	< 7.90E-01	< 1.45E-06
2-Nitrophenol	3.2 ND	0.5 ND	2.3 ND	< 1.80E+00	< 3.30E-06
4-Nitrophenol	3.3 ND	3.3 ND	3.3 ND	< 2.97E+00	< 5.45E-06
N-Nitrosodiphenylamine	0.6 ND	0.87 ND	1.2 ND	< 8.02E-01	< 1.47E-06
N-Nitroso-di-n-propylamine	0.73 ND	0.5 ND	2 ND	< 9.70E-01	< 1.78E-06
2,2'-oxybis (1-Chloropropane)	1 ND	0.76 ND	1.5 ND	< 9.79E-01	< 1.79E-06
Pentachlorophenol	25 ND	25 ND	2.9 ND	< 1.59E+01	< 2.91E-05
Phenol	1.1 ND	0.9 ND	1.8 ND	< 1.14E+00	< 2.09E-06
1,2,4-Trichlorobenzene	0.73 ND	0.59 ND	1.8 ND	< 9.37E-01	< 1.72E-06
2,4,5-Trichlorophenol	2.3 ND	1.3 ND	1.8 ND	< 1.62E+00	< 2.97E-06
2,4,6-Trichlorophenol	1.4 ND	0.75 ND	2.1 ND	< 1.28E+00	< 2.34E-06
	0	0	0	0.00E+00	0.00E+00
Special Target Analytes					
Acetophenone	0.77 ND	4 J	2.2 ND	< 2.09E+00	< 3.83E-06
Aniline	0.95 ND	7.3 ND	16 ND	< 7.28E+00	< 1.33E-05
Anthracene	0.51 ND	0.4 ND	1.4 ND	< 7.24E-01	< 1.33E-06
Benzaldehyde	2.6 ND	5.1 J	1.8 ND	< 2.85E+00	< 5.23E-06
Benzidine	51 ND	51 ND	56 ND	< 4.75E+01	< 8.69E-05
Benzo(a)anthracene	0.82 ND	0.58 ND	1.5 ND	< 8.71E-01	< 1.60E-06
Benzo(b)fluoranthene	1.4 ND	1.1 ND	3.6 ND	< 1.83E+00	< 3.36E-06
Benzo(k)fluoranthene	2.1 ND	1.6 ND	2.5 ND	< 1.86E+00	< 3.41E-06
Benzoic acid	42 ND	46 ND	8 ND	< 2.88E+01	< 5.28E-05
Benzonitrile	2.4 ND	1.7 ND	2.2 ND	< 1.89E+00	< 3.47E-06
Benzo(ghi)perylene	2.8 ND	0.62 ND	1.8 ND	< 1.57E+00	< 2.87E-06
Benzo(a)pyrene	1 ND	0.5 ND	1.5 ND	< 9.01E-01	< 1.65E-06
Carbazole	0.76 ND	0.64 ND	1.9 ND	< 9.91E-01	< 1.82E-06
Chrysene	0.88 ND	0.64 ND	1.1 ND	< 7.87E-01	< 1.44E-06
Dibenz(a,h)anthracene	2 ND	0.5 ND	2.4 ND	< 1.50E+00	< 2.75E-06
1,3-Dinitrobenzene	0.59 ND	0.52 ND	2.5 ND	< 1.08E+00	< 1.99E-06
Diphenylamine	0.5 ND	0.5 ND	2.5 ND	< 1.05E+00	< 1.93E-06
1,2-Diphenylhydrazine	0.63 ND	0.5 ND	1.2 ND	< 7.00E-01	< 1.28E-06
Fluoranthene	0.5 ND	0.5 ND	1.5 ND	< 7.51E-01	< 1.38E-06
Fluorene	0.51 ND	0.5 ND	2.3 ND	< 9.94E-01	< 1.82E-06
Indeno(1,2,3-cd)pyrene	2.1 ND	0.54 ND	1.9 ND	< 1.36E+00	< 2.50E-06
2-Methylnaphthalene	0.56 ND	0.5 ND	1.9 ND	< 8.89E-01	< 1.63E-06
3 & 4-Methylphenol	2.3 ND	2 ND	1.9 ND	< 1.86E+00	< 3.41E-06
Naphthalene	0.5 ND	0.6 ND	1.5 ND	< 7.81E-01	< 1.43E-06
N-Nitrosodimethylamine	0.72 ND	0.5 ND	1.9 ND	< 9.37E-01	< 1.72E-06
Pentachlorobenzene	0.52 ND	0.5 ND	1.9 ND	< 8.77E-01	< 1.61E-06
Pentachloronitrobenzene	0.76 ND	0.5 ND	2.2 ND	< 1.04E+00	< 1.90E-06
Phenanthrene	0.51 ND	0.5 ND	1.6 ND	< 7.84E-01	< 1.44E-06
Pyrene	0.74 ND	0.53 ND	1.2 ND	< 7.42E-01	< 1.36E-06
Pyridine	0.89 ND	0.74 ND	4.5 ND	< 1.84E+00	< 3.37E-06
1,2,4,5-Tetrachlorobenzene	0.87 ND	0.5 ND	1.8 ND	< 9.52E-01	< 1.74E-06
Tentatively Identified Compounds					
Furan, 2,5-dimethyl-	4.6 NJ	0	0	1.38E+00	2.53E-06
Unknown (1.9671)	5.4 NJ	0	0	1.62E+00	2.97E-06
Unknown (2.5253)	4.8 NJ	0	38 NJ	1.29E+01	2.35E-05
Unknown (2.6545)	8.6 NJ	0	0	2.58E+00	4.73E-06
Heptane, 2,5-dimethyl-	18 NJ	12 NJ	11 NJ	1.23E+01	2.26E-05
Unknown (2.7485)	82 NJ	0	0	2.46E+01	4.51E-05
3-Hexene-2,5-dione	5.2 NJ	0	0	1.56E+00	2.86E-06
Unknown (2.1492)	0	54 NJ	0	1.62E+01	2.97E-05
Toluene	0	20 NJ	0	6.01E+00	1.10E-05
Methane, dibromochloro-	0	8 NJ	0	2.40E+00	4.40E-06
Octane, 2-methyl-	0	6.1 NJ	0	1.83E+00	3.36E-06
Unknown (2.7721)	0	550 NJ	0	1.65E+02	3.03E-04
Benzene, chloro-	0	82 NJ	0	2.46E+01	4.51E-05
Methane, tribromo-	0	10 NJ	0	3.00E+00	5.50E-06
Benzoic acid, methyl ester	0	4.4 NJ	0	1.32E+00	2.42E-06
Benzaldehyde, 3-ethyl-	0	5.9 NJ	0	1.77E+00	3.25E-06
Unknown (2.0259)	0	0	21 NJ	6.31E+00	1.16E-05
3-Hexen-2-one	0	0	620 NJ	1.86E+02	3.41E-04
Unknown (2.7486)	0	0	400 NJ	1.20E+02	2.20E-04
Unknown (2.9542)	0	0	17 NJ	5.11E+00	9.35E-06
Unknown (3.1657)	0	0	11 NJ	3.30E+00	6.05E-06
Unknown (4.8579)	0	0	16 NJ	4.91E+00	8.80E-06
Total Semivolatiles	< 393.94	1055.05	1406	< 8.58E+02	< 1.57E-03

NOTE: All concentrations in this table are uncorrected for oxygen concentration.

(a) Stack gas sample volume

117,540 dry standard cubic feet

3.33 dry standard cubic meters

(b) Stack gas flow rate

3,880 dry standard cubic feet per minute

1.83 dry standard cubic meters per second

(c) For non-detects, stack concentrations and emissions are calculated using one half of the detection limit.

Semivolatile Organic Compound Emission Results - Run 3

Semivolatile Compound	Front Half Analytical Result (ug/sample)	Back Half Analytical Result (ug/sample)	Condensate Analytical Result (ug/sample)	Stack (a,b,c) Concentration (ug/dscm)	Emission Rate (g/s)
Standard Target Analytes					
Acenaphthene	0.5 ND	0.5 ND	1.7 ND	< 7.58E-01	< 1.46E-06
Acenaphthylene	0.5 ND	0.5 ND	1.5 ND	< 7.02E-01	< 1.35E-06
Benzyl alcohol	35 ND	35 ND	1.8 ND	< 2.02E+01	< 3.88E-05
Bis(2-chloroethoxy) methane	0.59 ND	0.5 ND	1.8 ND	< 8.12E-01	< 1.56E-06
Bis(2-chloroethyl) ether	0.76 ND	0.56 ND	1.5 ND	< 7.92E-01	< 1.53E-06
Bis(2-ethylhexyl) phthalate	3.3 ND	10 ND	16 J	< 8.23E+00	< 1.58E-05
4-Bromophenyl-phenyl ether	0.53 ND	0.5 ND	1.3 ND	< 6.54E-01	< 1.26E-06
Butylbenzylphthalate	1.1 ND	0.61 ND	2 ND	< 1.04E+00	< 2.01E-06
4-Chloroaniline	1.2 ND	6 ND	7.1 ND	< 4.02E+00	< 7.74E-06
4-Chloro-3-methylphenol	1 ND	0.62 ND	5.8 ND	< 2.08E+00	< 4.01E-06
2-Chloronaphthalene	0.5 ND	0.5 ND	1.2 ND	< 6.18E-01	< 1.19E-06
2-Chlorophenol	0.98 ND	0.5 ND	1.5 ND	< 8.37E-01	< 1.61E-06
4-Chlorophenyl-phenyl ether	0.51 ND	0.5 ND	2.8 ND	< 1.07E+00	< 2.06E-06
Dibenzofuran	0.53 ND	0.5 ND	2.6 ND	< 1.02E+00	< 1.96E-06
Di-n-butylphthalate	0.71 ND	10 ND	2 ND	< 3.57E+00	< 6.88E-06
1,2-Dichlorobenzene	0.84 ND	0.51 ND	1.5 ND	< 8.01E-01	< 1.54E-06
1,3-Dichlorobenzene	1.2 ND	0.57 ND	1.3 ND	< 8.62E-01	< 1.66E-06
1,4-Dichlorobenzene	1.1 ND	0.53 ND	1.8 ND	< 9.63E-01	< 1.86E-06
3,3'-Dichlorobenzidine	2.7 ND	7.4 ND	6.9 ND	< 4.78E+00	< 9.20E-06
2,4-Dichlorophenol	1.5 ND	0.5 ND	2.1 ND	< 1.15E+00	< 2.22E-06
Diethyl phthalate	1.5 ND	0.73 ND	1.2 ND	< 9.63E-01	< 1.86E-06
2,4-Dimethylphenol	2.9 ND	6.3 ND	1.4 ND	< 2.98E+00	< 5.73E-06
Dimethylphthalate	0.63 ND	0.5 ND	1.2 ND	< 6.54E-01	< 1.26E-06
4,6-Dinitro-2-methylphenol	5 ND	8.7 ND	1.3 ND	< 4.21E+00	< 8.11E-06
2,4-Dinitrophenol	5.9 ND	22 ND	3.6 ND	< 8.85E+00	< 1.70E-05
2,4-Dinitrotoluene	1.6 ND	0.5 ND	2.4 ND	< 1.26E+00	< 2.43E-06
2,6-Dinitrotoluene	1.3 ND	0.5 ND	1.8 ND	< 1.01E+00	< 1.95E-06
Di-n-octyl phthalate	2.1 ND	0.56 ND	2.2 ND	< 1.37E+00	< 2.63E-06
Hexachlorobenzene	0.56 ND	0.5 ND	2.4 ND	< 9.72E-01	< 1.87E-06
Hexachlorobutadiene	1.4 ND	0.74 ND	1.7 ND	< 1.08E+00	< 2.08E-06
Hexachlorocyclo-pentadiene	10 ND	10 ND	5.8 ND	< 7.25E+00	< 1.40E-05
Hexachloroethane	2.5 ND	0.54 ND	1.7 ND	< 1.33E+00	< 2.56E-06
Isophrone	0.66 ND	0.5 ND	1.6 ND	< 7.75E-01	< 1.49E-06
2-Methylphenol	2.3 ND	3 ND	1.9 ND	< 2.02E+00	< 3.89E-06
2-Nitroaniline	0.56 ND	0.5 ND	2.5 ND	< 1.00E+00	< 1.93E-06
3-Nitroaniline	3.8 ND	2 ND	4.2 ND	< 2.81E+00	< 5.41E-06
4-Nitroaniline	2.3 ND	2 ND	3.4 ND	< 2.16E+00	< 4.17E-06
Nitrobenzene	0.73 ND	0.5 ND	1.5 ND	< 7.67E-01	< 1.48E-06
2-Nitrophenol	3.2 ND	0.5 ND	2.4 ND	< 1.71E+00	< 3.30E-06
4-Nitrophenol	3.3 ND	3.3 ND	3.4 ND	< 2.81E+00	< 5.41E-06
N-Nitrosodiphenylamine	0.6 ND	0.87 ND	1.2 ND	< 7.50E-01	< 1.44E-06
N-Nitroso-di-n-propylamine	0.73 ND	0.5 ND	2.1 ND	< 9.35E-01	< 1.80E-06
2,2'-oxybis (1-Chloropropane)	1 ND	0.76 ND	1.6 ND	< 9.44E-01	< 1.82E-06
Pentachlorophenol	25 ND	25 ND	3.1 ND	< 1.49E+01	< 2.87E-05
Phenol	1.1 ND	0.9 ND	1.9 ND	< 1.10E+00	< 2.11E-06
1,2,4-Trichlorobenzene	0.73 ND	0.59 ND	1.9 ND	< 9.04E-01	< 1.74E-06
2,4,5-Trichlorophenol	2.3 ND	1.3 ND	1.9 ND	< 1.54E+00	< 2.98E-06
2,4,6-Trichlorophenol	1.4 ND	0.75 ND	2.2 ND	< 1.22E+00	< 2.35E-06
	0	0	0	0.00E+00	0.00E+00
Special Target Analytes					
Acetophenone	0.77 ND	5.1 J	2.3 ND	< 2.29E+00	< 4.42E-06
Aniline	0.95 ND	7.3 ND	16 ND	< 6.81E+00	< 1.31E-05
Anthracene	0.51 ND	0.5 ND	1.5 ND	< 7.05E-01	< 1.36E-06
Benzaldehyde	2.6 ND	6.9 J	1.9 ND	< 3.20E+00	< 6.17E-06
Benzidine	51 ND	51 ND	58 ND	< 4.49E+01	< 8.65E-05
Benzo(a)anthracene	0.82 ND	0.58 ND	1.5 ND	< 8.15E-01	< 1.57E-06
Benzo(b)fluoranthene	1.4 ND	1.1 ND	3.8 ND	< 1.77E+00	< 3.41E-06
Benzo(k)fluoranthene	2.1 ND	1.6 ND	2.6 ND	< 1.77E+00	< 3.41E-06
Benzoic acid	42 ND	46 ND	8.4 ND	< 2.71E+01	< 5.21E-05
Benzonitrile	2.4 ND	1.7 ND	2.3 ND	< 1.80E+00	< 3.46E-06
Benzo(ghi)perylene	2.8 ND	0.62 ND	1.9 ND	< 1.49E+00	< 2.88E-06
Benzo(a)pyrene	1 ND	0.5 ND	1.6 ND	< 8.71E-01	< 1.68E-06
Carbazole	0.76 ND	0.64 ND	2 ND	< 9.55E-01	< 1.84E-06
Chrysene	0.88 ND	0.64 ND	1.2 ND	< 7.64E-01	< 1.47E-06
Dibenz(ah)anthracene	2 ND	0.6 ND	2.5 ND	< 1.43E+00	< 2.76E-06
1,3-Dinitrobenzene	0.59 ND	0.52 ND	2.6 ND	< 1.04E+00	< 2.01E-06
Diphenylamine	0.5 ND	0.5 ND	2.6 ND	< 1.01E+00	< 1.95E-06
1,2-Diphenylhydrazine	0.63 ND	0.5 ND	1.3 ND	< 6.83E-01	< 1.31E-06
Fluoranthene	0.5 ND	0.5 ND	1.6 ND	< 7.30E-01	< 1.41E-06
Fluorene	0.51 ND	0.5 ND	2.5 ND	< 9.86E-01	< 1.90E-06
Indeno(1,2,3-cd)pyrene	2.1 ND	0.54 ND	2 ND	< 1.30E+00	< 2.51E-06
2-Methylnaphthalene	0.56 ND	0.5 ND	2 ND	< 8.60E-01	< 1.66E-06
3 & 4-Methylphenol	2.3 ND	2 ND	2 ND	< 1.77E+00	< 3.41E-06
Naphthalene	0.5 ND	9.9 J	1.6 ND	< 3.37E+00	< 6.49E-06
N-Nitrosodimethylamine	0.72 ND	0.5 ND	1.9 ND	< 8.76E-01	< 1.69E-06
Pentachlorobenzene	0.52 ND	0.5 ND	2 ND	< 8.48E-01	< 1.63E-06
Pentachloronitrobenzene	0.76 ND	0.5 ND	2.3 ND	< 1.00E+00	< 1.93E-06
Phenanthrene	0.51 ND	0.5 ND	1.7 ND	< 7.61E-01	< 1.47E-06
Pyrene	0.74 ND	0.53 ND	1.3 ND	< 7.22E-01	< 1.39E-06
Pyridine	0.89 ND	0.74 ND	4.7 ND	< 1.78E+00	< 3.42E-06
1,2,4,5-Tetrachlorobenzene	0.87 ND	0.5 ND	1.9 ND	< 9.18E-01	< 1.77E-06
Tentatively Identified Compounds					
Unknown (2.7427)	23 NJ	0	0	6.46E+00	1.24E-05
9-Octadecenamide, (Z)-	14 NJ	0	0	3.93E+00	7.57E-06
Unknown (12.701)	5.7 NJ	0	0	1.60E+00	3.08E-06
Unknown (2.1492)	0	70 NJ	0	1.97E+01	3.79E-05
Toluene	0	55 NJ	0	1.54E+01	2.98E-05
Methane, dibromochloro-	0	9.9 NJ	0	2.78E+00	5.36E-06
Tetrachloroethylene	0	21 NJ	0	5.90E+00	1.14E-05
Unknown (2.7779)	0	630 NJ	0	1.77E+02	3.41E-04
Benzene, chloro-	0	260 NJ	0	7.30E+01	1.41E-04
Methane, tribromo-	0	14 NJ	0	3.93E+00	7.57E-06
Benzaldehyde, 3-ethyl-	0	7.2 NJ	0	2.02E+00	3.89E-06
3-Penten-2-one, 4-methyl-	0	0	120 NJ	3.37E+01	6.49E-05
Unknown (2.5254)	0	0	37 NJ	1.04E+01	2.00E-05
Unknown (2.7428)	0	0	34 NJ	9.55E+00	1.84E-05
Total Semivolatiles	< 308.04	1381.95	460.2	< 6.04E+02	< 1.16E-03

NOTE: All concentrations in this table are uncorrected for oxygen concentration.

(a) Stack gas sample volume

125.710 dry standard cubic feet

3.56 dry standard cubic meters

(b) Stack gas flow rate

4,080 dry standard cubic feet per minute

1.93 dry standard cubic meters per second

(c) For non-detects, stack concentrations and emissions are calculated using one half of the detection limit.

Volatile Compound	Bag Analytical Result (ppmv, dry)	Condensate Analytical Result (ug/sample)	Stack (a,b,c) Concentration (ppmv, dry)	Stack (a,b,c) Concentration (ug/dscm)	Emission Rate (g/s)
Total C1	1.72	0	1.72E+00	1.15E+03	2.76E-03
Total C2	0.083 ND	0	< 8.30E-02	< 1.04E+02	< 2.49E-04
Total C3	0.11 ND	0	< 1.10E-01	< 2.02E+02	< 4.85E-04
Total C4	0.08 ND	0.042 ND	< 8.08E-02	< 1.96E+02	< 4.69E-04
Total C5	0.14 ND	0.02436 J,B	< 1.40E-01	< 4.22E+02	< 1.01E-03
Total C6	0.13 ND	0.03108 J	< 1.30E-01	< 4.68E+02	< 1.12E-03
Total C7	0.18 ND	0.0042 ND	< 1.80E-01	< 7.52E+02	< 1.80E-03
Total Volatile Organics	< 2.443	0.10164	< 2.44E+00	< 3.29E+03	< 7.90E-03

(a) Stack gas sample volume

0.759 dry standard cubic feet

0.02 dry standard cubic meters

(b) Stack gas flow rate

5,080 dry standard cubic feet per minute

2.40 dry standard cubic meters per second

(c) For non-detects, stack concentrations and emissions are calculated using one half of the detection limit.

Total Volatile (C1 - C7) Organic Compound Emission Results - Run :

Volatile Compound	Bag Analytical Result (ppmv, dry)	Condensate Analytical Result (ug/sample)	Stack (a,b,c) Concentration (ppmv, dry)	Stack (a,b,c) Concentration (ug/dscm)	Emission Rate (g/s)
Total C1	1.76	0	1.76E+00	1.18E+03	2.14E-03
Total C2	0.083 ND	0	< 8.30E-02	< 1.04E+02	< 1.89E-04
Total C3	0.11 ND	0	< 1.10E-01	< 2.02E+02	< 3.68E-04
Total C4	0.08 ND	0.042 ND	< 8.07E-02	< 1.95E+02	< 3.56E-04
Total C5	0.14 ND	0.01386 J,B	< 1.40E-01	< 4.21E+02	< 7.68E-04
Total C6	0.13 ND	0.03654 J	< 1.30E-01	< 4.68E+02	< 8.53E-04
Total C7	0.18 ND	0.0042 ND	< 1.80E-01	< 7.52E+02	< 1.37E-03
Total Volatile Organics	< 2.483	0.0966	< 2.48E+00	< 3.32E+03	< 6.05E-03

NOTE: All concentrations in this table are uncorrected for oxygen concentration.

- (a) Stack gas sample volume 0.894 dry standard cubic feet
0.03 dry standard cubic meters
- (b) Stack gas flow rate 3,860 dry standard cubic feet per minute
1.82 dry standard cubic meters per second
- (c) For non-detects, stack concentrations and emissions are calculated using one half of the detection limit.

Total Volatile (C1 - C7) Organic Compound Emission Results - Run 1

Volatile Compound	Bag Analytical Result (ppmv, dry)	Condensate Analytical Result (ug/sample)	Stack (a,b,c) Concentration (ppmv, dry)	Stack (a,b,c) Concentration (ug/dscm)	Emission Rate (g/s)
Total C1	1.68	0	1.68E+00	1.12E+03	2.15E-03
Total C2	0.083 ND	0	< 8.30E-02	< 1.04E+02	< 1.99E-04
Total C3	0.11 ND	0	< 1.10E-01	< 2.02E+02	< 3.87E-04
Total C4	0.08 ND	0.042 ND	< 8.06E-02	< 1.95E+02	< 3.74E-04
Total C5	0.14 ND	0.0126 J,B	< 1.40E-01	< 4.21E+02	< 8.07E-04
Total C6	0.13 ND	0.03906 J	< 1.30E-01	< 4.68E+02	< 8.97E-04
Total C7	0.18 ND	0.0042 ND	< 1.80E-01	< 7.52E+02	< 1.44E-03
Total Volatile Organics	< 2.403	0.09786	< 2.40E+00	< 3.26E+03	< 6.26E-03

NOTE: All concentrations in this table are uncorrected for oxygen concentration.

- (a) Stack gas sample volume 1.065 dry standard cubic feet
0.03 dry standard cubic meters
- (b) Stack gas flow rate 4,060 dry standard cubic feet per minute
1.92 dry standard cubic meters per second
- (c) For non-detects, stack concentrations and emissions are calculated using one half of the detection limit.