

BOILER RESULTS CO and NO_x as NO₂

Company	Pascoes Pty Ltd
Site	40 - 46 Fairfield Street, FAIRFIELD EAST NSW 2165
Unit Sampled	Boiler Discharge - Point 1
Sampling Date	24-Feb-15
Start Time	10.40
Finish Time	11.10
Nos. of Points sampled	8

Parameters	Units	CO	NO _x as NO ₂
Temperature	°C	215	
CO ₂ in stack gas	%	3.8	
O ₂ in stack gas	%	14.3	
Stack gas moisture	%	8.3	
Gas molecular weight dry	g/g mole	29	
Gas density, dry	kg/m ³	0.73	
Average velocity at sample plane	m/s	8.3	
Volumetric flow rate ³ (Wet, actual)	m ³ /s	0.58	
Volumetric flow rate (Dry, STP)	dsm ³ /s	0.30	
Total sampling time	min	20.00	
Concentration	mg/NM	170	
Release Limit	mg/NM	350	
Emission Rate	g/s	0.02	

RESULTS VOC's

Analyte	LOR (ug)	Concentration (mg/Nm ³)	Release Limit (mg/Nm ³)	Emission Rate (g/s)
Total VOC's as n-Propane		0.012	N/A	0.0000036
Speciated VOC's				
Aliphatic Hydrocarbons				
1-heptane	0.5	<0.5	"	0.00
Decane	0.5	<0.5	"	0.00
Heptane	0.5	<0.5	"	0.00
Monocyclic Aromatic Hydrocarbons				
Benzene	0.5	<0.5	"	0.00
Toluene	0.5	<0.5	"	0.00
Ethylbenzene	0.5	<0.5	"	0.00
meta & para Xylene	1	<1.0	"	0.00
Styrene	0.5	<0.5	"	0.00
ortho-Xylene	0.5	<0.5	"	0.00
1,3,5-Trimethylbenzene	0.5	<0.5	"	0.00
1,2,4-Trimethylbenzene	0.5	<0.5	"	0.00
n-Butylbenzene	0.5	<0.5	"	0.00
Isopropylbenzene	0.5	<0.5	"	0.00
Oxygenated Compounds				
2-Propanone (Acetone)	0.5	<0.5	"	0.00
2-Butanone (MEK)	0.5	<0.5	"	0.00
4-Meththyl-2-pentanone (MBK)	0.5	<0.5	"	0.00
2-Hexanone (MBK)	0.5	<0.5	"	0.00

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Halogenated Compounds				
1,1-Dichloroethane	0.5	<0.5	"	0.0
Chloroform	0.5	<0.5	"	0.0
Trichloroethane	0.5	<0.5	"	0.0
Chlorobenzene	0.5	<0.5	"	0.0
2-Chlorotoluene	0.5	<0.5	"	0.0
4-Chlorotoluene	0.5	<0.5	"	0.0
1,3-Dichlorobenzene	0.5	<0.5	"	0.0
1,4-Dichlorobenzene	0.5	<0.5	"	0.0
1,2-Dichlorobenzene	0.5	<0.5	"	0.0
Hexachlorobutadiene	0.5	<0.5	"	0.0

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Company	Pascoes Pty Ltd			
Site	40 - 46 Fairfield Street, FAIRFIELD EAST NSW 2165			
Unit Sampled	Boiler Discharge - Point 1			
Sampling Date	25-Feb-14			
Start Time	12.05pm			
Finish Time	12.27pm			
Nos. of Points sampled	8			
Parameters	Units	CO	NO _x as NO ₂	
Temperature	°C	204.50		
CO ₂ in stack gas	%	3.13		
O ₂ in stack gas	%	15.34		
Stack gas moisture	%	30.27		
Gas molecular weight dry	g/g mole	29.11		
Gas density, dry	kg/m ³	0.75		
Average velocity at sample plane	m/s	12.98		
Volumetric flow rate ³ (Wet, actual)	m ³ /s	0.92		
Volumetric flow rate (Dry, STP)	dsm ³ /s	0.37		
Total sampling time	min	20.00		
Concentration	mg/NM ³	186.06	57.37	
Release Limit	mg/NM ³	N/A	350	
Emission Rate	g/s	0.001137	0.000351	

RESULTS VOC's

Analyte	LOR (ug)	Concentration (mg/Nm ³)	Release Limit (mg/Nm ³)	Emission Rate (g/s)
Total VOC's as n-Propane		1.28	N/A	4.68E-04
Speciated VOC's				
Aliphatic Hydrocarbons				
1-heptane	0.5	<0.5	"	0.00
Decane	0.5	<0.5	"	0.00
Heptane	0.5	<0.5	"	0.00
Monocyclic Aromatic Hydrocarbons				
Benzene	0.5	<0.5	"	0.00
Toluene	0.5	<0.5	"	0.00
Ethylbenzene	0.5	<0.5	"	0.00
meta & para Xylene	1	<1.0	"	0.00
Styrene	0.5	<0.5	"	0.00
ortho-Xylene	0.5	<0.5	"	0.00
1,3,5-Trimethylbenzene	0.5	<0.5	"	0.00
1,2,4-Trimethylbenzene	0.5	<0.5	"	0.00
n-Butylbenzene	0.5	<0.5	"	0.00
Isopropylbenzene	0.5	<0.5	"	0.00
Oxygenated Compounds				
2-Propanone (Acetone)	0.5	1.684	"	0.000618
2-Butanone (MEK)	0.5	<0.5	"	0.00
4-Meththyl-2-pentanone (MBK)	0.5	<0.5	"	0.00
2-Hexanone (MBK)	0.5	<0.5	"	0.00

Halogenated Compounds				
1,1-Dichloroethane	0.5	<0.5	"	0.00
Chloroform	0.5	<0.5	"	0.00
Trichloroethane	0.5	<0.5	"	0.00
Chlorobenzene	0.5	<0.5	"	0.00
2-Chlorotoluene	0.5	<0.5	"	0.00
4-Chlorotoluene	0.5	<0.5	"	0.00
1,3-Dichlorobenzene	0.5	<0.5	"	0.00
1,4-Dichlorobenzene	0.5	<0.5	"	0.00
1,2-Dichlorobenzene	0.5	<0.5	"	0.00
Hexachlorobutadiene	0.5	<0.5	"	0.00

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Company	Pascoes Pty Ltd			
Site	40 - 46 Fairfield Street, FAIRFIELD EAST NSW 2165			
Unit Sampled	Boiler Discharge - Point 1			
Sampling Date	1-Mar-13			
Start Time	11.59am			
Finish Time	12.19pm			
Nos. of Points sampled	12			
Parameters				
	Units	CO	NO_x as NO₂	
Temperature	°C	240.88		
CO ₂ in stack gas	%	8.52		
O ₂ in stack gas	%	5.69		
Stack gas moisture	%	9.98		
Gas molecular weight dry	g/g mole	29.59		
Gas density, dry	kg/m ³	0.70		
Average velocity at sample plane	m/s	7.82		
Volumetric flow rate ³ (Wet, actual)	m ³ /s	0.55		
Volumetric flow rate (Dry, STP)	dsm ³ /s	0.26		
Total sampling time	min	20.00		
Concentration	mg/NM	0.39	210.86	
Release Limit	mg/NM	N/A	350	
Emission Rate	g/s	0.000002	0.000928	

RESULTS VOC's

Analyte	LOR (ug)	Concentration (mg/Nm ³)	Release Limit (mg/Nm ³)	Emmision Rate (g/s)
Total VOC's as n-Propane		0.1057	N/A	2.80E-05
Speciated VOC's				
Aliphatic Hydrocarbons				
1-heptane	0.5	<0.5	"	0.00
Decane	0.5	<0.5	"	0.00
Heptane	0.5	<0.5	"	0.00
Monocyclic Aromatic Hydrocarbons				
Benzene	0.5	<0.5	"	0.00
Toluene	0.5	<0.5	"	0.00
Ethylbenzene	0.5	<0.5	"	0.00
meta & para Xylene	1	<1.0	"	0.00
Styrene	0.5	<0.5	"	0.00
ortho-Xylene	0.5	<0.5	"	0.00
1,3,5-Trimethylbenzene	0.5	<0.5	"	0.00
1,2,4-Trimethylbenzene	0.5	<0.5	"	0.00
n-Butylbenzene	0.5	<0.5	"	0.00
Isopropylbenzene	0.5	<0.5	"	0.00
Oxygenated Compounds				
2-Propanone (Acetone)	0.5	0.1395	"	3.70E-05
2-Butanone (MEK)	0.5	<0.5	"	0.00
4-Meththyl-2-pentanone (MBK)	0.5	<0.5	"	0.00
2-Hexanone (MBK)	0.5	<0.5	"	0.00

Halogenated Compounds				
1,1-Dichloroethane	0.5	<0.5	"	0.00
Chloroform	0.5	<0.5	"	0.00
Trichloroethane	0.5	<0.5	"	0.00
Chlorobenzene	0.5	<0.5	"	0.00
2-Chlorotoluene	0.5	<0.5	"	0.00
4-Chlorotoluene	0.5	<0.5	"	0.00
1,3-Dichlorobenzene	0.5	<0.5	"	0.00
1,4-Dichlorobenzene	0.5	<0.5	"	0.00
1,2-Dichlorobenzene	0.5	<0.5	"	0.00
Hexachlorobutadiene	0.5	<0.5	"	0.00