

PREBURN

JOB # 035-S-075-1 Model Designation ARADA\_FARRINGDON16

TECHNICIAN BTN

DATE: 2\_17\_17

RUN #: EPA5

READING INTERVAL: 10

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Run Time: 60

Tunnel Traverse Information								
	Pt.1	Pt.2	Pt.3	Pt.4	Pt.5	Pt.6	Pt.7	Pt.8
dP	0.035	0.045	0.042	0.040	0.045	0.050	0.040	0.036
Temperature	135	135	135	135	135	135	135	135

0.042

135.000

			1	2	3	4	5	
			TEMPERATURES					
ET	SCALE READING	FLUE DRAFT	LEFT SIDE	RIGHT SIDE	BACK	TOP	BOTTOM	STOVE AVG T
0	11.5	-0.05	306	297	371	314	150	287.6
10	9.5	-0.074	307	300	368	407	149	306.2
20	7	-0.076	367	376	405	552	149	369.8
30	4.6	-0.074	450	455	458	646	149	431.6
40	3.2	-0.065	477	495	499	658	150	455.8
50	2.4	-0.064	473	483	522	591	154	444.6
60	2.1	-0.058	443	450	502	512	157	412.8

Dilution Tunnel MW(dry):	29.00	lb/lb-mole
Dilution Tunnel MW(wet):	28.78	lb/lb-mole
Dilution Tunnel H2O:	2.00	%
Dilution Tunnel Static:	-0.400	In H2O
Tunnel Area:	0.196	ft <sup>2</sup>
Pitot Tube Cp:	0.99	

Tunnel Velocity:	14.33707 ft/sec.
Intial Tunnel Flow:	145.7073 scfm
Average Tunnel Flow:	148.2876 scfm

Run # EPA5  
 Date: 2/17/17

Dilution Tunnel MW(dry): 29.00 lb/lb-mole  
 Dilution Tunnel MW(wet): 28.78 lb/lb-mole  
 Dilution Tunnel H2O: 2.00 %  
 Dilution Tunnel Static: -0.400 In H2O  
 Tunnel Area: 0.196 ft<sup>2</sup>  
 Pitot Tube Cp: 0.99

Dilution Tunnel Traverse Data								
	Pt.1	Pt.2	Pt.3	Pt.4	Pt.5	Pt.6	Pt.7	Pt.8
dP	0.035	0.045	0.042	0.040	0.045	0.050	0.040	0.036
Temperature	135	135	135	135	135	135	135	135

0.042  
 135.000

Tunnel Velocity:	14.337	ft/sec.
Intial Tunnel Flow:	145.71	scfm
Average Tunnel Flow	148.29	scfm

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[illegible]

TEST START TIME:		17:24								1	2	3	4	5	6	
										TEMPERATURES						
	GAS METER	SAMPLE	TUNNEL	ORIFICE	FILTER	TUNNEL VEL	Proportional	Scale	Weight	TUNNEL	FLUE	FILTER	FB REAR	FB	METER	AMBIENT
ET	VOLUME	RATE(FT3/MIN)	DELTA P	DELTA H	VAC	FT/SEC	Rate (%)	Weight	Chg	TEMP	TEMP	TEMP	TEMP	INT	TEMP	TEMP
	17.075		0.042	2.03		14.286	100.3			121	482				91	71

JOB #	035-S-075-1									
TECHNICIAN	BTN									
DATE:	2_17_17									
RUN #:	EPA5									
READING INTERVAL:	10									
SAMPLE BOX :	B	METER Y FACTOR:			1.002	PROBE MATERIAL:			SS	
FRONT FILTER #:	3054					REAR FILTER #:	3055			
FINAL LEAK RATE (CFM):	<0.01	@	18	IN-HG		FINAL LEAK RATE (CFM):	<0.01	@	18	IN-HG

Run Time:	120	Firebox Delta T	57.8
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[illegible]

Run No.

[illegible]

[illegible]



## Ambient Sample Results:

JOB NUMBER: 035-S-075-1  
 TECHNICIAN: BTN  
 DATE: 2\_17\_17  
 RUN NUMBER: EPA5

METER Y FACTOR: **0.997**

	<u>Sample Volume (L)</u>	<u>Meter Temp °F</u>	<u>ΔH</u>	<u>ΔP</u>
Start	0	86	0	0
End	633.178	101	0	0

Total Sample Volume - Vm  
 Total Sample Volume - Vm  
 Average Sample Rate  
 Sample Time  
 Average Meter Temperature  
 Total Sample Volume (Standard Conditions) - Vmstd

Total Particulates

Particulate Concentration (dry-standard)

Particulate Emission Rate

SAMPLE INFORMATION	
633.178	Liters
22.360	ft³
0.19	ft³/min
120.00	Minutes
93.5	°F
21.039	dscf
0.1	mg
0.000004753	grams/dscf
0.000050000	grams/hour

JOB NUMBER

035-S-075-1

RUN #

EPA5

DATE:

2\_17\_17

BURN RATE

2.01

KG/HR DRY

FILTER A  
PARTICULATE

3.1

mg

FILTER B  
PARTICULATE

3.2

mg

Total Sample Volume - Vm

Average Gas Velocity in Dilution Tunnel - vs

Average Gas Flow Rate in Dilution Tunnel - Qsd

Total Sample Volume (Standard Conditions) - Vmstd

Average Tunnel Temperature

Average Delta p

Average Gas Meter Temperature

Average Delta H

Total Time of Test

Total Particulates

Particulate Concentration (dry-standard)

Ambient Train (dry-standard)

Net (dry-standard)

Particulate Emission Rate

Total PM Emissions

Average Total PM Emissions

AVERAGE PARTICULATE

EMISSIONS RATE

% OF AVERAGE

Emissions Factor

SAMPLE A  
INFORMATION

17.08

14.34

8897.26

16.42

feet/second

dscf/hour

dscf

121.5

F

0.042

91

F

2.03

in-h20

120

min

3.1

mg

0.00019

grams/dscf

0.000004753

grams/dscf

0.000184016

grams/dscf

1.64

grams/hour

3.27

grams

3.36

grams

1.68

grams/hour

97.4

0.817

g/Kg -Dry

SAMPLE B  
INFORMATION

16.86

14.34

8897.26

16.13

feet/second

dscf/hour

dscf

121.5

F

0.042

90

F

1.98

in-h20

120

min

3.2

mg

0.00020

grams/dscf

0.000004753

grams/dscf

0.00019367

grams/dscf

1.72

grams/hour

3.45

grams