12/29/2012 Morning

Visible Emissions Evaluation

Facility Name	ECC
AVOGADRO Project No.	12-9191
Location (city, state)	Brooklyn, NY
Type of Facility	Em. Ops.
Control Equipment / Emission Source	Firetube
Date of Observation	12/29/2012
Start Time	0020
Stop Time	0328
Distance from observer (ft)	~100ft
Direction from observer	N
Stack height (fr. observer's elev.) (ft)	~10 ft
Stack Diameter (in)	
Description of plume:	
continuous? fugitive? intermittent?	Cont
color	white
water drops present? (Y/N)	N
attached steam plume? (Y/N)	N
detached steam plume? (Y/N)	N
secondary plume? (Y/N)	N
point where opacity read	1-4 stack length
target?	right sky
describe background to plume	
unique features of plume or stack	
Weather:	@ 0000
ambient temperature (F)	31°
relative humidity	72%
wind direction	—
wind speed	calm
barometric pressure	30.07in
rain? fog? snow? haze?	clear
Glasses worn:	
corrective? (Y/N)	Y
sunglasses? (Y/N)	N

Observer's name	Joshua Wagner
Observer certification date	
Certifying agency	PSU / Whitlow
Observer affiliation	Avogadro Env.

Run Number(s) and Description: Runs 1-8

sec	0	15	30	45
min	Run 1 Time: 0020			
1	10	15	10	10
2	5	5	10	10
3	5	10	10	15
4	10	10	10	10
5	10	10	10	10
6	5	10	10	10
6-minute Average: 9.6				
Source Conditions:				
Sun Angle (degrees): —				

sec	0	15	30	45
min	Run 5 Time: 0204			
1	5	5	5	5
2	5	5	5	5
3	5	5	5	5
4	5	5	5	5
5	5	5	5	5
6	5	5	5	5
6-minute Average: 5				
Source Conditions:				
Sun Angle (degrees): —				

	Run 2 Time: 0046			
1	5	5	5	5
2	10	5	5	5
3	5	5	10	5
4	5	5	5	5
5	5	5	5	5
6	5	5	5	5
6-minute Average: 5.4				
Source Conditions:				
Sun Angle (degrees): —				

	Run 6 Time: 0230			
1	5	5	5	5
2	5	5	5	5
3	5	5	5	5
4	5	5	5	5
5	5	5	5	5
6	5	5	5	5
6-minute Average: 5				
Source Conditions:				
Sun Angle (degrees): —				

	Run 3 Time: 0112			
1	5	5	5	5
2	5	5	5	5
3	5	5	5	5
4	5	5	5	5
5	5	5	5	5
6	5	5	5	5
6-minute Average: 5				
Source Conditions:				
Sun Angle (degrees): —				

	Run 7 Time: 0256			
1	5	5	5	5
2	5	5	5	5
3	5	5	5	5
4	5	5	5	5
5	5	5	5	5
6	5	5	5	5
6-minute Average: 5				
Source Conditions:				
Sun Angle (degrees): —				

	Run 4 Time: 0138			
1	5	5	0	5
2	5	5	5	5
3	5	5	5	5
4	5	5	5	5
5	5	5	5	5
6	5	5	5	5
6-minute Average: 4.8				
Source Conditions:				
Sun Angle (degrees): —				

	Run 8 Time: 0322			
1	10	10	10	10
2	15	10	10	10
3	10	10	10	10
4	10	10	10	10
5	5	10	10	10
6	10	10	10	10
6-minute Average: 10				
Source Conditions:				
Sun Angle (degrees): —				

Range of opacity readings: low 0 high 15

Number of readings above _____ % were _____

Observer's Signature

12/29/2012 Morning

Run Number(s) and Description Runs 9-15

Visible Emissions Evaluation

Facility Name	ECC
AVOGADRO Project No.	12-9981
Location (city, state)	Brooklyn, NY
Type of Facility	Em. Ops.
Control Equipment / Emission Source	Firebox
Date of Observation	12/29/2012
Start Time	0348
Stop Time	
Distance from observer (ft)	~100ft
Direction from observer	N
Stack height (fr. observer's elev.) (ft)	~10 ft
Stack Diameter (in)	
Description of plume:	
continuous? fugitive? intermittent?	cont.
color	White
water drops present? (Y/N)	N
attached steam plume? (Y/N)	N
detached steam plume? (Y/N)	N
secondary plume? (Y/N)	N
point where opacity read	1-4 stack lights
target?	night sky
describe background to plume	"
unique features of plume or stack	
Weather:	@0338
ambient temperature (F)	31°
relative humidity	78%
wind direction	—
wind speed	Calm
barometric pressure	30.06 in
rain? fog? snow? haze?	clear
Glasses worn:	
corrective? (Y/N)	Y
sunglasses? (Y/N)	N

Observer's name	Joshua Wagner
Observer certification date	
Certifying agency	PSH / Whitlow
Observer affiliation	Avogadro Env.

sec	0	15	30	45
min	Run 9	Time: 0348		
1	5	5	5	5
2	5	5	5	5
3	0	0	5	5
4	5	5	5	5
5	0	5	0	5
6	0	5	5	5
6-minute Average: 4.0				
Source Conditions:				
Sun Angle (degrees): —				

sec	0	15	30	45
min	Run 13	Time: 0532		
1	10	10	10	10
2	10	10	10	10
3	10	10	10	10
4	10	10	10	5
5	10	5	5	10
6	10	10	10	10
6-minute Average: 9.4				
Source Conditions:				
Sun Angle (degrees): —				

	Run 10	Time: 0414		
1	10	10	10	10
2	10	10	10	10
3	10	10	10	10
4	10	10	10	10
5	10	10	10	10
6	10	10	10	10
6-minute Average: 10				
Source Conditions:				
Sun Angle (degrees): —				

	Run 14	Time: 0558		
1	10	10	10	10
2	10	10	10	10
3	10	10	10	10
4	5	10	10	10
5	5	10	10	10
6	10	10	10	5
6-minute Average: 9.4				
Source Conditions:				
Sun Angle (degrees): —				

	Run 11	Time: 0440		
1	5	10	5	5
2	5	5	5	5
3	5	5	5	5
4	5	5	5	5
5	5	5	10	5
6	5	5	5	5
6-minute Average: 5.4				
Source Conditions:				
Sun Angle (degrees): —				

	Run 15	Time: 0624		
1	5	5	10	10
2	10	10	10	10
3	10	10	10	10
4	10	10	10	10
5	10	5	5	5
6	10	10	5	5
6-minute Average: 8.5				
Source Conditions:				
Sun Angle (degrees): —				

	Run 12	Time: 0506		
1	5	5	5	5
2	10	10	5	5
3	10	10	10	10
4	10	10	10	10
5	10	10	10	10
6	5	5	5	5
6-minute Average: 7.9				
Source Conditions:				
Sun Angle (degrees): —				

	Run 16	Time:		
1				
2				
3				
4				
5				
6				
6-minute Average:				
Source Conditions:				
Sun Angle (degrees): —				

Range of opacity readings:

low _____ high _____

Number of readings above _____ % were _____

_____

Observer's Signature