Saturday, Jan 5th, 2013

Visible Emissions Evaluation

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

Facility Name	ECC Floyd Bennett Field
AVOGADRO Project No.	12-9191
Location (city, state)	Brooklyn, NY
Type of Facility	Debris Removal
Control Equipment / Emission Source	ACB
Date of Observation	01/05/2013
Start Time	0020
Stop Time	0244
Distance from observer (ft)	300'
Direction from observer	NNW
Stack height (fr. observer's elev.) (ft)	9'
Stack Diameter (in)	27' x 9'
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	1-3 conex lengths
target?	sky
describe background to plume	sky, backlit
unique features of plume or stack	—
Weather: @0020	
ambient temperature (F)	34°
relative humidity	54%
wind direction	E
wind speed	3-6 mph
barometric pressure	30.03 in Hg
rain? fog? snow? haze?	clear
Glasses worn:	
corrective? (Y/N)	Y
sunglasses? (Y/N)	—

Observer's name	Joshua Wagner
Observer certification date	Night 12/20/2012
Certifying agency	Whitlow
Observer affiliation	

sec	0	15	30	45
min	**Run 1 Time: 0020**			
1	10	10	10	10
2	10	10	10	30
3	25	20	20	25
4	20	25	20	15
5	15	15	20	20
6	15	15	20	25
6-minute Average: 17.3				
Source Conditions: ash removal				
Sun Angle (degrees): —				
Run 2 Time: [illegible]0030				
1	20	15	20	15
2	15	20	20	20
3	20	15	15	15
4	15	15	20	20
5	15	20	20	20
6	15	15	20	20
6-minute Average: 17.7				
Source Conditions: ash removal				
Sun Angle (degrees): —				
Run 3 Time: [illegible]0040				
1	15	15	15	15
2	15	20	15	15
3	20	20	15	20
4	15	20	20	20
5	15	20	20	15
6	15	15	20	20
6-minute Average: 17.3				
Source Conditions: ash removal				
Sun Angle (degrees): —				
Run 4 Time: [illegible]0050				
1	20	20	15	15
2	15	15	15	15
3	15	15	15	15
4	15	20	15	15
5	20	20	20	20
6	25	20	20	20
6-minute Average: 17.5				
Source Conditions: ash removal				
Sun Angle (degrees): —				

sec	0	15	30	45
min	**Run 5 Time: [illegible]0120**			
1	15	15	15	15
2	15	15	10	10
3	10	10	15	10
4	10	10	10	10
5	15	10	10	15
6	10	15	10	15
6-minute Average: 12.3				
Source Conditions: [illegible] adjusting to peak burn capacity				
Sun Angle (degrees): —				
Run 6 Time: [illegible]0140				
1	10	10	5	10
2	10	10	10	10
3	10	10	10	10
4	10	15	10	10
5	10	10	10	10
6	10	10	10	10
6-minute Average: 10				
Source Conditions: [illegible] "				
Sun Angle (degrees): —				
Run 7 Time: [illegible]0212				
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 8 Time: 0238				
1	10	10	15	10
2	10	10	10	15
3	10	10	10	10
4	10	15	10	10
5	15	10	10	10
6	10	10	10	15
6-minute Average: 11				
Source Conditions: "				
Sun Angle (degrees): —				

Range of opacity readings: low 5 high 30

Number of readings above 10 % were 10%, due to ash removal

Observer's Signature

Visible Emissions Evaluation

Saturday, Jan. 5th 2013

Run Number(s) and Description: Morning Runs 9-15

Facility Name	ECC Floyd Bennett Field
AVOGADRO Project No.	12-9191
Location (city, state)	Brooklyn, NY
Type of Facility	Debris Removal
Control Equipment / Emission Source	ACB
Date of Observation	01/05/2013
Start Time	0310
Stop Time	0546
Distance from observer (ft)	300'
Direction from observer	NNW
Stack height (fr. observer's elev.) (ft)	91'
Stack Diameter (in)	27' x 9'
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	1-3 conex lengths
target?	sky/
describe background to plume	sky, backlit
unique features of plume or stack	—
Weather: @0300	
ambient temperature (F)	34°
relative humidity	47%
wind direction	E
wind speed	3-4 mph
barometric pressure	30.09 inHg
rain? fog? snow? haze?	clear
Glasses worn:	
corrective? (Y/N)	Y
sunglasses? (Y/N)	—

Observer's name	Joshua Wagner
Observer certification date	Night 12/20/2012
Certifying agency	Whitlow
Observer affiliation	Avogadro Env.

sec	0	15	30	45
min	Run 9 Time: 0310			
1	15	15	15	15
2	15	15	15	15
3	10	15	15	15
4	15	15	15	15
5	15	20	15	15
6	15	15	15	15
6-minute Average: 15				
Source Conditions: warming up acc. to loader				
Sun Angle (degrees): —				

sec	0	15	30	45
min	Run 13 Time: 0456			
1	5	5	5	5
2	5	5	5	5
3	0	5	0	5
4	5	5	0	5
5	5	5	5	5
6	0	5	5	5
6-minute Average: 4.2				
Source Conditions: up to temperature				
Sun Angle (degrees): —				

Run 10 Time: 0336				
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: 0522				
1	5	5	5	5
2	5	5	5	10
3	10	10	10	10
4	10	10	10	10
5	10	15	15	10
6	10	10	10	10
6-minute Average: 9.0				
Source Conditions: "				
Sun Angle (degrees): —				

Run 11 Time: 0402				
1	10	10	15	10
2	10	10	15	10
3	15	10	10	15
4	10	10	10	10
5	10	10	10	10
6	15	10	15	10
6-minute Average: 11.3				
Source Conditions: "				
Sun Angle (degrees): —				

Run 15 Time: 0540				
1	5	0	5	0
2	5	0	5	0
3	5	0	0	0
4	5	0	5	5
5	0	0	0	5
6	0	5	0	0
6-minute Average: 2.1				
Source Conditions: " / hot				
Sun Angle (degrees): —				

Run 12 Time: 0428				
1	15	15	10	15
2	10	10	10	15
3	10	15	10	15
4	10	15	10	10
5	10	10	10	10
6	10	10	10	10
6-minute Average: 11.5				
Source Conditions: "				
Sun Angle (degrees): —				

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

Range of opacity readings: low 0 high 15

Number of readings above 10 % were 38

Observer's Signature

Visible Emissions Evaluation

Facility Name	ECC FBF
AVOGADRO Project No.	12-9191
Location (city, state)	Brooklyn, NY
Type of Facility	
Control Equipment / Emission Source	ACB
Date of Observation	1-5-13
Start Time	720
Stop Time	
Distance from observer (ft)	100'
Direction from observer	N
Stack height (fr. observer's elev.) (ft)	10'
Stack Diameter (in)	27.17 x 8.42

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	10' Downwind
target?	
describe background to plume	Contained
unique features of plume or stack	

Weather:

ambient temperature (F)	35°F
relative humidity	40%
wind direction	E
wind speed	5-10
barometric pressure	29.90
rain? fog? snow? haze?	PTly Cldy

Glasses worn:

corrective? (Y/N)	Y
sunglasses? (Y/N)	N

Observer's name	MARK T. READY
Observer certification date	10-22-12
Certifying agency	EPA Tz
Observer affiliation	AVOGADRO/DA

Run Number(s) and Description 1-5-13 PAGE 1

sec	0	15	30	45
min	Run 1 Time: 720			
1	10	5	5	0
2	5	5	5	5
3	5	5	0	5
4	5	5	5	0
5	0	5	5	5
6	0	5	5	0
6-minute Average:	4.0			
Source Conditions:				
Sun Angle (degrees):	55			
	Run 2 Time: 740			
1	15	10	5	5
2	10	5	5	5
3	5	5	5	5
4	5	5	0	5
5	5	10	5	10
6	5	10	10	10
6-minute Average:	6.7			
Source Conditions:				
Sun Angle (degrees):	50			
	Run 3 Time: 800			
1	5	10	5	5
2	5	5	5	5
3	5	5	5	5
4	5	5	5	10
5	10	10	10	5
6	10	5	5	5
6-minute Average:	6.3			
Source Conditions:				
Sun Angle (degrees):	50			
	Run 4 Time: 820			
1	10	5	5	5
2	5	5	10	10
3	5	5	5	5
4	5	10	5	15
5	10	10	5	5
6	5	10	5	10
6-minute Average:	7.1			
Source Conditions:				
Sun Angle (degrees):	50			

sec	0	15	30	45
min	Run 5 Time: 840			
1	10	5	5	5
2	10	5	5	5
3	5	5	5	5
4	5	10	10	10
5	10	10	10	10
6	10	10	5	10
6-minute Average:	7.5			
Source Conditions:				
Sun Angle (degrees):	40			
	Run 6 Time: 900			
1	5	10	10	0
2	15	5	15	15
3	10	10	15	10
4	10	10	5	5
5	0	5	10	5
6	5	5	5	5
6-minute Average:	7.9			
Source Conditions:				
Sun Angle (degrees):	40			
	Run 7 Time: 915			
1	0	0	0	5
2	5	0	0	0
3	0	0	5	5
4	10	10	10	10
5	15	10	10	15
6	10	10	5	5
6-minute Average:	5.8			
Source Conditions:				
Sun Angle (degrees):	35			
	Run 8 Time: 940			
1	10	10	10	10
2	5	5	5	10
3	5	5	10	10
4	5	5	5	5
5	5	5	5	5
6	5	5	5	5
6-minute Average:	6.5			
Source Conditions:				
Sun Angle (degrees):	35			

Range of opacity readings: low 0 high 15

Number of readings above 10 % were 8

Observer's Signature

AVOGADRO ENVIRONMENTAL CORPORATION, Easton Pa

Visible Emissions Evaluation

Facility Name	ECC FBF
AVOGADRO Project No.	12-9191
Location (city, state)	Brooklyn, NY
Type of Facility	
Control Equipment / Emission Source	ACB
Date of Observation	1-5-13
Start Time	1000
Stop Time	1225
Distance from observer (ft)	135'
Direction from observer	NE
Stack height (fr. observer's elev.) (ft)	10'
Stack Diameter (in)	27.17 X 8.42

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	10' Downwind
target?	
describe background to plume	Containers
unique features of plume or stack	

Weather:

ambient temperature (F)	40
relative humidity	45%
wind direction	SE
wind speed	10-5-10
barometric pressure	29.90
rain? fog? snow? haze?	Clear

Glasses worn:

corrective? (Y/N)	Y
sunglasses? (Y/N)	N

Observer's name	MARK T. READY
Observer certification date	10-22-12
Certifying agency	ECONTEC
Observer affiliation	AVOGADRO/DA

Run Number(s) and Description PAGE 2 1-5-13

sec	0	15	30	45
min	Run 9 Time: 1000			
1	0	0	0	0
2	0	0	0	0
3	5	0	0	0
4	0	0	0	0
5	0	5	10	10
6	5	0	5	0
6-minute Average:	1.7			
Source Conditions:				
Sun Angle (degrees):	10			
min	Run 10 Time: 1020			
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
6-minute Average:	0			
Source Conditions:				
Sun Angle (degrees):	10			
min	Run 11 Time: 1040			
1	0	0	0	0
2	0	0	0	5
3	0	5	10	10
4	15	5	0	0
5	0	0	0	0
6	0	0	0	0
6-minute Average:	2.1			
Source Conditions:				
Sun Angle (degrees):	5			
min	Run 12 Time: 1100			
1	5	5	10	0
2	5	5	5	5
3	5	15	5	0
4	10	15	15	10
5	10	5	5	10
6	10	0	0	0
6-minute Average:	6.5			
Source Conditions:				
Sun Angle (degrees):	5			

sec	0	15	30	45
min	Run 13 Time: 1120			
1	5	5	5	0
2	5	10	10	5
3	10	10	15	10
4	5	10	10	5
5	10	10	5	5
6	5	5	10	5
6-minute Average:	7.3			
Source Conditions:				
Sun Angle (degrees):	10			
min	Run 14 Time: 1140			
1	0	10	5	5
2	5	0	0	0
3	0	0	0	0
4	15	5	5	5
5	5	5	0	0
6	5	5	0	5
6-minute Average:	3.3			
Source Conditions:				
Sun Angle (degrees):	10			
min	Run 15 Time: 1200			
1	10	5	5	5
2	5	5	5	5
3	10	0	0	0
4	0	0	0	0
5	5	5	5	5
6	15	5	15	15
6-minute Average:	5.2			
Source Conditions:				
Sun Angle (degrees):	10			
min	Run 16 Time: 1220			
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
6-minute Average:	0			
Source Conditions:				
Sun Angle (degrees):	10			

Range of opacity readings: low 0 high 15

Number of readings above 10 % were 8

Observer's Signature

AVOGADRO ENVIRONMENTAL CORPORATION, Easton Pa

Visible Emissions Evaluation

Facility Name	ECC EBF
AVOGADRO Project No.	12-9191
Location (city, state)	Brooklyn Ct, NH
Type of Facility	
Control Equipment / Emission Source	ACB
Date of Observation	1-5-13
Start Time	1240
Stop Time	1505
Distance from observer (ft)	150'
Direction from observer	NE
Stack height (fr. observer's elev.) (ft)	10'
Stack Diameter (in)	27.17 x 8.42
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	10' Downwind
target?	
describe background to plume	Containers
unique features of plume or stack	
Weather:	
ambient temperature (F)	45°F
relative humidity	45%
wind direction	SE
wind speed	10-15
barometric pressure	29.90
rain? fog? snow? haze?	mostly Sunny
Glasses worn:	
corrective? (Y/N)	Y
sunglasses? (Y/N)	N

Observer's name	MARK T. READY
Observer certification date	10-22-12
Certifying agency	KCONTZ
Observer affiliation	Avogadro / DA

Run Number(s) and Description PAGE 3 1-5-13

sec	0	15	30	45
min	Run 17 Time:		1240	
1	0	0	0	0
2	0	0	5	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	5	10	0	15
6-minute Average:			1.5	
Source Conditions:				
Sun Angle (degrees):			10	
	Run 18 Time:		1300	
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
6-minute Average:			0	
Source Conditions:				
Sun Angle (degrees):			10	
	Run 19 Time:		1320	
1	10	5	5	5
2	5	5	5	5
3	10	5	5	5
4	5	10	5	5
5	5	5	5	0
6	5	5	5	5
6-minute Average:			5.4	
Source Conditions:				
Sun Angle (degrees):			5	
	Run 20 Time:		1340	
1	0	0	0	0
2	5	5	5	5
3	5	5	5	5
4	0	0	0	5
5	0	0	10	0
6	0	0	0	0
6-minute Average:			2.3	
Source Conditions:				
Sun Angle (degrees):			5	

sec	0	15	30	45
min	Run 21 Time:		1400	
1	0	0	5	0
2	15	10	15	15
3	10	5	15	15
4	10	5	5	5
5	5	5	10	10
6	15	15	20	10
6-minute Average:			9.2	
Source Conditions:				
Sun Angle (degrees):			10	
	Run 22 Time:		1420	
1	0	0	0	0
2	5	0	5	0
3	5	0	5	5
4	5	5	5	5
5	5	5	5	5
6	0	0	5	5
6-minute Average:			3.1	
Source Conditions:				
Sun Angle (degrees):			10	
	Run 23 Time:		1440	
1	10	10	5	10
2	15	10	10	10
3	10	5	5	10
4	10	5	5	10
5	10	10	10	10
6	10	10	10	10
6-minute Average:			9.2	
Source Conditions:				
Sun Angle (degrees):			10	
	Run 24 Time:		1500	
1	5	10	5	5
2	5	5	5	5
3	10	5	5	5
4	5	10	5	5
5	10	10	10	10
6	10	10	5	10
6-minute Average:			7.1	
Source Conditions:				
Sun Angle (degrees):			15	

Range of opacity readings: low 0 high 15 20

Number of readings above 10 % were 10

Observer's Signature

Visible Emissions Evaluation

Facility Name	ECC FBF
AVOGADRO Project No.	12-9191
Location (city, state)	Bloomfield, NM
Type of Facility	
Control Equipment / Emission Source	ACB
Date of Observation	1-5-13
Start Time	1520
Stop Time	
Distance from observer (ft)	150'
Direction from observer	NE
Stack height (fr. observer's elev.) (ft)	10'
Stack Diameter (in)	27.17 x 8.42

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	10' Downwind
target?	
describe background to plume	Containers
unique features of plume or stack	

Weather:

ambient temperature (F)	48°F
relative humidity	45%
wind direction	SE
wind speed	5-10
barometric pressure	29.90
rain? fog? snow? haze?	clear

Glasses worn:

corrective? (Y/N)	Y
sunglasses? (Y/N)	N

Observer's name	MARK T. READY
Observer certification date	10-22-12
Certifying agency	KOONTZ
Observer affiliation	AVOGADRO / DA

Run Number(s) and Description — PAGE 4 1-5-13

sec	0	15	30	45
min	Run 25 Time:		1520	
1	5	5	10	5
2	5	5	5	5
3	0	5	10	5
4	5	10	5	5
5	5	5	10	5
6	5	5	0	5
6-minute Average:			5.4	
Source Conditions:				
Sun Angle (degrees):			30	
	Run 26 Time:		1540	
1	5	0	0	0
2	0	0	0	0
3	5	5	0	0
4	0	0	0	0
5	5	5	0	0
6	5	5	5	0
6-minute Average:			1.7	
Source Conditions:				
Sun Angle (degrees):			35	
	Run 27 Time:		1600	
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
6-minute Average:			0	
Source Conditions:				
Sun Angle (degrees):			35	
	Run 28 Time:		1620	
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
6-minute Average:			0	
Source Conditions:				
Sun Angle (degrees):			35	

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

Range of opacity readings: low 0 high 10

Number of readings above 10, % were 0

Observer's Signature

Visible Emissions Evaluation

Saturday, Jan 5th 2013

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

Facility Name	ECC Floyd Bennett Field
AVOGADRO Project No.	12-9191
Location (city, state)	Brooklyn, NY
Type of Facility	Debris Removal
Control Equipment / Emission Source	ACB
Date of Observation	01/05/2013
Start Time	1900
Stop Time	2208
Distance from observer (ft)	300'
Direction from observer	NNW
Stack height (fr. observer's elev.) (ft)	9'
Stack Diameter (in)	27' x 9'
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	1-2 conex lengths
target?	sky
describe background to plume	sky
unique features of plume or stack	—
Weather:	@1900
ambient temperature (F)	38°
relative humidity	50%
wind direction	E
wind speed	3-6 mph
barometric pressure	30.27 in Hg
rain? fog? snow? haze?	clear
Glasses worn:	
corrective? (Y/N)	Y
sunglasses? (Y/N)	—

Observer's name	Joshua Wagner
Observer certification date	Night 12/20/2012
Certifying agency	Whitlow
Observer affiliation	Avogadro Env.

sec	0	15	30	45
Run 1 Time: 1900				
1	5	10	5	10
2	10	10	10	10
3	10	10	10	10
4	10	15	15	10
5	10	10	10	10
6	10	10	10	10
6-minute Average: 10				
Source Conditions:				
Sun Angle (degrees): —				
Run 2 Time: 1926				
1	10	10	10	10
2	5	5	10	10
3	5	10	5	10
4	5	5	10	5
5	5	10	10	5
6	10	10	10	5
6-minute Average: 7.9				
Source Conditions:				
Sun Angle (degrees): —				
Run 3 Time: 1952				
1	10	10	5	10
2	10	5	10	5
3	5	10	5	5
4	5	10	5	5
5	5	10	5	5
6	10	5	5	10
6-minute Average: 7.1				
Source Conditions:				
Sun Angle (degrees): —				
Run 4 Time: 2018				
1	10	10	5	10
2	10	10	5	10
3	5	5	10	10
4	5	5	10	10
5	10	5	10	5
6	10	5	10	5
6-minute Average: 7.9				
Source Conditions:				
Sun Angle (degrees): —				

sec	0	15	30	45
Run 5 Time: 2044				
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 6 Time: 2110				
1	5	10	5	10
2	5	10	5	10
3	5	10	5	10
4	10	10	5	10
5	15	15	10	10
6	10	10	10	10
6-minute Average: 9.0				
Source Conditions: stoking near end run				
Sun Angle (degrees): —				
Run 7 Time: 2136				
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 8 Time: 2202				
1	5	5	5	5
2	5	5	5	5
3	5	5	5	5
4	5	0	5	5
5	5	5	5	5
6	5	5	5	5
6-minute Average: 4.8				
Source Conditions:				
Sun Angle (degrees): —				

Range of opacity readings: low 0 high 15

Number of readings above 10 % were 4

Observer's Signature

Visible Emissions Evaluation

Saturday, Jan 5th 2013

Run Number(s) and Description: Night Runs 9-12

Facility Name	ECC Floyd Bennett Field
AVOGADRO Project No.	12-9191
Location (city, state)	Brooklyn, NY
Type of Facility	Debris Removal
Control Equipment / Emission Source	ACB
Date of Observation	01/05/2013
Start Time	2230
Stop Time	2354
Distance from observer (ft)	300ft
Direction from observer	NNW
Stack height (fr. observer's elev.) (ft)	9'
Stack Diameter (in)	27' x 9'
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	1-3 conex lengths
target?	sky
describe background to plume	night sky
unique features of plume or stack	@2230
Weather:	
ambient temperature (F)	34°
relative humidity	66%
wind direction	E
wind speed	1-4mph
barometric pressure	30.26 in Hg
rain? fog? snow? haze?	clear
Glasses worn:	
corrective? (Y/N)	Y
sunglasses? (Y/N)	—

Observer's name	Joshua Wagner
Observer certification date	Night - 12/20/2012
Certifying agency	Whitlow
Observer affiliation	Avogadro Env.

sec	0	15	30	45
min	Run 9 Time: 2230			
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 10 Time: 2256			
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 11 Time: 2322			
1	5	5	5	5
2	5	5	5	5
3	5	5	5	5
4	5	5	5	5
5	10	10	5	5
6	0	5	0	0
6-minute Average:	4.8			
Source Conditions:				
Sun Angle (degrees):	—			
	Run 12 Time: 2348			
1	5	5	5	5
2	5	5	5	5
3	5	5	5	5
4	5	5	5	5
5	0	0	5	5
6	5	5	5	5
6-minute Average:	4.6			
Source Conditions:				
Sun Angle (degrees):	—			

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

Range of opacity readings: low 0 high 10

Number of readings above 10 % were 0

Observer's Signature