Sunday Early Morn, February 10th, 2013

Visible Emissions Evaluation

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 1
Date of Observation	02/10/2013
Start Time	0034
Stop Time	342
Distance from observer (ft)	200'
Direction from observer	E
Stack height (fr. observer's elev.) (ft)	9'
Stack Diameter (in)	27'x9'

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 cover lengths
target?	sky
describe background to plume	sky
unique features of plume or stack	—
	@0034

Weather:

ambient temperature (F)	21°
relative humidity	49%
wind direction	South
wind speed	4-10 mph
barometric pressure	30.35 inHg
rain? fog? snow? haze?	clear

Glasses worn:

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

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

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

sec	0	15	30	45
min	Run 1 Time: 0034			
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	5
6-minute Average: 0.2				
Source Conditions:				
Sun Angle (degrees):				
	Run 2 Time: 0100			
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):				
	Run 3 Time: 0126			
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):				
	Run 4 Time: 0152			
1	0	0	0	0
2	0	5	0	0
3	0	0	0	0
4	5	0	0	0
5	0	0	0	0
6	0	0	0	0
6-minute Average: 0.4				
Source Conditions:				
Sun Angle (degrees):				

sec	0	15	30	45
min	Run 5 Time: 0218			
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):				
	Run 6 Time: 0244			
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):				
	Run 7 Time: 310			
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):				
	Run 8 Time: 336			
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):				

Range of opacity readings: low 0 high 5

Number of readings above 10 % were 0

Observer's Signature

Sunday Early Morn, February 10th, 2013

Run Number(s) and Description: ACB 1 Runs 9-13

Visible Emissions Evaluation

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 1
Date of Observation	02/10/2013
Start Time	402
Stop Time	540
Distance from observer (ft)	200'
Direction from observer	E
Stack height (fr. observer's elev.) (ft)	9'
Stack Diameter (in)	27'x9'
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 cubic lengths
target?	sky
describe background to plume	sky
unique features of plume or stack	—
	@ 402
Weather:	
ambient temperature (F)	19°
relative humidity	54%
wind direction	South
wind speed	5-9mph
barometric pressure	30.38 inHg
rain? fog? snow? haze?	clear
Glasses worn:	
corrective? (Y/N)	yes
sunglasses? (Y/N)	—

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

sec	0	15	30	45	sec	0	15	30	45
min	Run 9 Time: 402				min	Run 13 Time: 534			
1	0	0	0	0	1	0	0	0	0
2	0	0	0	0	2	0	0	0	0
3	0	0	0	0	3	0	0	0	0
4	0	0	0	0	4	0	0	0	0
5	0	0	0	5	5	0	0	0	0
6	5	5	5	5	6	0	0	0	0
6-minute Average:	1.0				6-minute Average:	0			
Source Conditions:					Source Conditions:				
Sun Angle (degrees):					Sun Angle (degrees):				
	Run 10 Time: 428					Run Time:			
1	0	0	0	0	1				
2	0	0	0	0	2				
0 3	0	0	0	0	3				
4	5	5	5	5	4				
2 5	5	0	0	0	5				
6	0	0	0	0	6				
6-minute Average:	1.0				6-minute Average:				
Source Conditions:					Source Conditions:				
Sun Angle (degrees):					Sun Angle (degrees):				
	Run 11 Time: 8 pm 454					Run Time:			
1	0	0	0	0	1				
2	0	0	0	0	2				
3	0	0	0	0	3				
4	0	0	0	0	4				
5	0	0	0	0	5				
6	0	0	0	0	6				
6-minute Average:	0				6-minute Average:				
Source Conditions:					Source Conditions:				
Sun Angle (degrees):					Sun Angle (degrees):				
	Run 12 Time: 520					Run Time:			
1	0	0	0	0	1				
2	0	0	0	0	2				
3	0	0	0	0	3				
4	0	0	0	0	4				
5	0	0	0	0	5				
6	0	0	0	0	6				
6-minute Average:	0				6-minute Average:				
Source Conditions:					Source Conditions:				
Sun Angle (degrees):					Sun Angle (degrees):				

Range of opacity readings: low 0 high 5

Number of readings above 10 % were 0

Observer's Signature

AVOGADRO ENVIRONMENTAL CORPORATION, Easton Pa

UNIT 1

Visible Emissions Evaluation

Run Number(s) and Description: Pg. 1 2-10-13

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	2-10-13
Start Time	0700
Stop Time	
Distance from observer (ft)	100'
Direction from observer	NW
Stack height (fr. observer's elev.) (ft)	10'
Stack Diameter (in)	27 x 8
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	Top Edge
target?	
describe background to plume	Containers
unique features of plume or stack	
Weather:	
ambient temperature (F)	20°F
relative humidity	
wind direction	SE
wind speed	0-5 MPH
barometric pressure	
rain? fog? snow? haze?	Clear
Glasses worn:	
corrective? (Y/N)	Y
sunglasses? (Y/N)	N

sec	0	15	30	45
min	Run 1 Time: 700			
1	10	10	5	5
2	5	5	5	5
3	5	0	5	5
4	5	10	5	5
5	5	10	5	5
6	0	5	5	5
6-minute Average:	5.4			
Source Conditions:				
Sun Angle (degrees):	10			
	Run 2 Time: 720			
1	15	10	10	5
2	10	15	5	5
3	15	10	10	5
4	10	15	10	5
5	15	15	10	10
6	15	10	5	5
6-minute Average:	10.0			
Source Conditions:				
Sun Angle (degrees):	10			
	Run 3 Time: 740			
1	15	15	10	10
2	10	10	10	10
3	10	15	10	10
4	10	20	15	10
5	10	15	10	10
6	10	10	10	10
6-minute Average:	11.5			
Source Conditions:				
Sun Angle (degrees):	5			
	Run 4 Time: 800			
1	15	20	20	15
2	15	15	15	15
3	15	15	15	15
4	15	15	15	15
5	15	15	15	15
6	15	15	15	15
6-minute Average:	15.4			
Source Conditions:				
Sun Angle (degrees):	5			

sec	0	15	30	45
min	Run 5 Time: 820			
1	15	20	15	15
2	15	20	15	15
3	20	15	15	15
4	15	15	15	15
5	20	15	15	15
6	15	15	15	15
6-minute Average:	15.8			
Source Conditions:				
Sun Angle (degrees):	5			
	Run 6 Time: 840			
1	15	15	10	15
2	15	10	10	15
3	15	15	15	15
4	15	15	15	15
5	15	15	15	10
6	15	15	15	15
6-minute Average:	14.2			
Source Conditions:				
Sun Angle (degrees):	0			
	Run 7 Time: 900			
1	10	10	10	5
2	10	10	10	10
3	10	10	5	5
4	5	10	10	10
5	10	10	10	10
6	5	5	10	10
6-minute Average:	8.8			
Source Conditions:				
Sun Angle (degrees):	0			
	Run 8 Time: 920			
1	5	5	5	5
2	0	5	5	5
3	0	5	10	10
4	10	15	15	15
5	15	15	15	15
6	10	10	10	10
6-minute Average:	9.0			
Source Conditions:				
Sun Angle (degrees):	5			

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

Range of opacity readings: low 0 high 20

Number of readings above 10 % were 88

Observer's Signature

AVOGADRO ENVIRONMENTAL CORPORATION, Easton Pa

UNIT 1

Run Number(s) and Description

Pg. 2 2-10-13

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	2-10-13
Start Time	940
Stop Time	
Distance from observer (ft)	100'
Direction from observer	NW
Stack height (fr. observer's elev.) (ft)	10'
Stack Diameter (in)	27x8
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	Top Edge
target?	
describe background to plume	Containers
unique features of plume or stack	
Weather:	
ambient temperature (F)	30°F
relative humidity	
wind direction	E
wind speed	0-5
barometric pressure	
rain? fog? snow? haze?	Clear
Glasses worn:	
corrective? (Y/N)	Y
sunglasses? (Y/N)	N

Observer's name	MARK I. READY
Observer certification date	10-22-12
Certifying agency	FOONTZ
Observer affiliation	AVOGADRO/DA

sec	0	15	30	45
min	Run 9 Time: 940			
1	5	5	5	10
2	10	5	5	5
3	15	5	5	10
4	5	15	5	5
5	10	10	5	10
6	5	5	10	5
6-minute Average:	7.3			
Source Conditions:				
Sun Angle (degrees):	5			
	Run 10 Time: 1000			
1	15	15	15	15
2	10	10	15	15
3	20	15	10	5
4	15	15	10	10
5	10	10	10	10
6	5	5	10	10
6-minute Average:	11.7			
Source Conditions:				
Sun Angle (degrees):	5			
	Run 11 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:	0.0			
Source Conditions:				
Sun Angle (degrees):	10			
	Run 12 Time: 1040			
1	5	5	0	0
2	0	0	0	0
3	0	0	0	0
4	5	0	5	5
5	5	0	5	5
6	0	0	5	0
6-minute Average:	1.9			
Source Conditions:				
Sun Angle (degrees):	10			

sec	0	15	30	45
min	Run 13 Time: 1100			
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:	0.0			
Source Conditions:				
Sun Angle (degrees):	15			
	Run 14 Time: 1120			
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:	0.0			
Source Conditions:				
Sun Angle (degrees):	15			
	Run 15 Time: 1140			
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:	0.0			
Source Conditions:				
Sun Angle (degrees):	15			
	Run 16 Time: 1200			
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:	0.0			
Source Conditions:				
Sun Angle (degrees):	25			

Range of opacity readings:

low 0 high 20

Number of readings above 10 % were 11

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	2-10-13
Start Time	1220
Stop Time	
Distance from observer (ft)	~~100'~~ 150'
Direction from observer	NE
Stack height (fr. observer's elev.) (ft)	10'
Stack Diameter (in)	27 x 8
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	Top Edge
target?	
describe background to plume	Containers
unique features of plume or stack	
Weather:	
ambient temperature (F)	32°F
relative humidity	
wind direction	E
wind speed	0-5
barometric pressure	
rain? fog? snow? haze?	Clear
Glasses worn:	
corrective? (Y/N)	Y
sunglasses? (Y/N)	N

Observer's name	MARK TIERNEY
Observer certification date	10-22-12
Certifying agency	KOONTZ
Observer affiliation	AVOGADRO/DA

UNIT 1

Run Number(s) and Description

Pg. 3 2-10-13

sec	0	15	30	45	sec	0	15	30	45
min	Run 17 Time: 1220				min	Run 21 Time: 1340			
1	0	0	0	0	1	5	0	0	5
2	0	0	0	0	2	5	5	5	5
3	0	0	0	0	3	5	5	0	0
4	0	0	0	5	4	5	5	5	5
5	0	0	0	0	5	5	5	5	5
6	0	0	0	0	6	0	5	5	0
6-minute Average:					6-minute Average: 3.8				
Source Conditions:					Source Conditions:				
Sun Angle (degrees): 40					Sun Angle (degrees): 20				
	Run 18 Time: 1240					Run 22 Time: 1400			
1	0	0	0	0	1	5	5	5	5
2	0	0	0	0	2	5	5	5	5
3	0	0	0	0	3	5	5	5	5
4	0	0	0	0	4	5	5	5	5
5	0	0	0	0	5	5	5	5	5
6	0	0	0	0	6	5	5	5	5
6-minute Average: 0.0					6-minute Average: 5.0				
Source Conditions:					Source Conditions:				
Sun Angle (degrees): 40					Sun Angle (degrees): 15				
	Run 19 Time: 1300					Run 23 Time: 1420			
1	5	5	5	5	1	0	0	0	0
2	5	5	5	5	2	0	0	0	5
3	5	5	5	5	3	5	0	0	0
4	5	5	5	5	4	0	0	0	0
5	5	5	5	5	5	0	0	0	0
6	5	5	5	5	6	0	0	0	0
6-minute Average: 5.0					6-minute Average: 0.4				
Source Conditions:					Source Conditions:				
Sun Angle (degrees): 30					Sun Angle (degrees): 15				
	Run 20 Time: 1320					Run 24 Time: 1440			
1	5	5	5	5	1	0	0	0	0
2	5	5	5	5	2	0	0	0	0
3	5	5	5	5	3	0	0	0	0
4	5	5	5	5	4	0	0	0	0
5	5	5	5	5	5	0	0	0	0
6	5	5	5	5	6	5	5	5	0
6-minute Average: 5.0					6-minute Average: 0.6				
Source Conditions:					Source Conditions:				
Sun Angle (degrees): 25					Sun Angle (degrees): 10				

Range of opacity readings:

low ~~0~~ high 5

Number of readings above 10 % were 0

Observer's Signature

AVOGADRO ENVIRONMENTAL CORPORATION, Easton Pa

UNIT 1

Run Number(s) and Description

Pg. 4 2-10-13

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	2-10-13
Start Time	1500
Stop Time	
Distance from observer (ft)	150'
Direction from observer	NE
Stack height (fr. observer's elev.) (ft)	10'
Stack Diameter (in)	27 x 8
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	Top Edge
target?	
describe background to plume	Containers
unique features of plume or stack	
Weather:	
ambient temperature (F)	32°F
relative humidity	
wind direction	NE
wind speed	0-5
barometric pressure	
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	VOONTZ
Observer affiliation	AVOGADRO / DA

sec	0	15	30	45
min	Run 25 Time: 1500			
1	15	10	15	15
2	10	10	10	15
3	10	10	10	10
4	10	10	10	10
5	5	5	10	10
6	5	5	5	10
6-minute Average:	9.4			
Source Conditions:				
Sun Angle (degrees):	5			
	Run 26 Time: 1520			
1	10	10	10	10
2	5	5	10	10
3	10	5	5	5
4	5	10	10	10
5	10	10	5	5
6	5	5	5	5
6-minute Average:	7.5			
Source Conditions:				
Sun Angle (degrees):	5			
	Run 27 Time: 1540			
1	5	5	10	10
2	5	5	5	10
3	10	10	10	5
4	5	5	5	5
5	5	10	10	5
6	5	10	5	10
6-minute Average:	7.1			
Source Conditions:				
Sun Angle (degrees):	0			
	Run 28 Time: 1600			
1	5	5	5	10
2	10	5	5	5
3	10	10	5	5
4	5	5	5	5
5	10	10	5	5
6	5	5	5	5
6-minute Average:	6.3			
Source Conditions:				
Sun Angle (degrees):	0			

sec	0	15	30	45
min	Run 29 Time: 1620			
1	0	0	0	0
2	5	5	0	0
3	5	0	5	5
4	0	0	0	5
5	5	5	5	5
6	0	5	0	5
6-minute Average:	2.5			
Source Conditions:				
Sun Angle (degrees):	20			
	Run 30 Time: 1640			
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	5	0	0	0
5	5	0	0	5
6	0	0	0	0
6-minute Average:	0.6			
Source Conditions:				
Sun Angle (degrees):	30			
	Run 31 Time: 1700			
1	10	5	5	5
2	5	10	5	5
3	5	5	5	5
4	5	10	5	5
5	5	5	5	5
6	5	5	5	5
6-minute Average:	5.6			
Source Conditions:				
Sun Angle (degrees):	25			
	Run 32 Time: 1720			
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 4

Observer's Signature

Visible Emissions Evaluation

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 1
Date of Observation	02/10/2013
Start Time	1904
Stop Time	2212
Distance from observer (ft)	200'
Direction from observer	E
Stack height (fr. observer's elev.) (ft)	9'
Stack Diameter (in)	27'x9'

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	cover lengths
target?	sky
describe background to plume	sky
unique features of plume or stack	—
	@ 1904

Weather:

ambient temperature (F)	33°
relative humidity	81 %
wind direction	calm
wind speed	calm
barometric pressure	30.36 inHg
rain? fog? snow? haze?	clear

Glasses worn:

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

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

Sunday Night, February 10th, 2013

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

sec	0	15	30	45	sec	0	15	30	45
min	Run 1 Time: 1904				min	Run 5 Time: 2048			
1	5	5	5	5	1	0	0	0	0
2	5	5	5	5	2	0	0	0	0
3	5	5	5	5	3	0	0	0	0
4	5	5	5	5	4	0	0	0	0
5	5	5	5	5	5	0	0	0	0
6	5	5	5	5	6	0	0	0	0
6-minute Average: 5					6-minute Average: 0				
Source Conditions:					Source Conditions:				
Sun Angle (degrees):					Sun Angle (degrees):				
	Run 2 Time: 1930					Run 6 Time: 2114			
1	5	5	5	5	1	0	0	0	0
2	5	5	5	5	2	0	0	0	0
3	5	5	5	5	3	0	0	0	0
4	5	5	5	5	4	0	0	0	0
5	5	5	5	5	5	0	0	0	0
6	5	5	5	5	6	0	0	0	0
6-minute Average: 5					6-minute Average: 0				
Source Conditions:					Source Conditions:				
Sun Angle (degrees):					Sun Angle (degrees):				
	Run 3 Time: 1956					Run 7 Time: 2140			
1	5	5	5	5	1	0	0	0	0
2	5	5	5	5	2	0	0	0	0
3	5	5	5	5	3	0	0	0	0
4	5	5	5	5	4	0	0	0	0
5	5	5	5	5	5	0	0	0	0
6	5	5	5	5	6	0	0	0	0
6-minute Average: 5					6-minute Average: 0				
Source Conditions:					Source Conditions:				
Sun Angle (degrees):					Sun Angle (degrees):				
	Run 4 Time: 2022					Run 8 Time: 2206			
1	5	5	5	5	1	0	0	0	0
2	5	5	5	5	2	0	0	0	0
3	5	5	5	5	3	0	0	0	0
4	5	5	5	5	4	0	0	0	0
5	5	5	5	5	5	0	0	0	0
6	5	5	5	5	6	0	0	0	0
6-minute Average: 5					6-minute Average: 0				
Source Conditions:					Source Conditions:				
Sun Angle (degrees):					Sun Angle (degrees):				

Range of opacity readings: low 0 high 5

Number of readings above 10 % were 0

Observer's Signature

Visible Emissions Evaluation

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 1
Date of Observation	02/10/2013
Start Time	2232
Stop Time	2356
Distance from observer (ft)	200'
Direction from observer	E
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 cover lengths
target?	sky
describe background to plume	sky
unique features of plume or stack	—
	@2230

Weather:

ambient temperature (F)	33°
relative humidity	81%
wind direction	calm
wind speed	calm
barometric pressure	30.36 inHg
rain? fog? snow? haze?	clear

Glasses worn:

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

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

Sunday Night, February 10th, 2013

Run Number(s) and Description: ACB 1 Runs 9-12

sec	0	15	30	45	sec	0	15	30	45
min	Run 9	Time: 2232			min	Run	Time:		
1	0	0	0	0	1				
2	0	0	0	0	2				
3	0	0	0	0	3				
4	0	0	0	0	4				
5	0	0	0	0	5				
6	0	0	0	0	6				
6-minute Average: 0					6-minute Average:				
Source Conditions:					Source Conditions:				
Sun Angle (degrees):					Sun Angle (degrees):				
	Run 10	Time: 2258				Run	Time:		
1	0	0	0	0	1				
2	0	0	0	0	2				
3	0	0	0	0	3				
4	0	0	0	0	4				
5	0	0	0	0	5				
6	0	0	0	0	6				
6-minute Average: 0					6-minute Average:				
Source Conditions:					Source Conditions:				
Sun Angle (degrees):					Sun Angle (degrees):				
	Run 11	Time: 2324				Run	Time:		
1	0	0	0	0	1				
2	0	0	0	0	2				
3	0	0	0	0	3				
4	0	0	0	0	4				
5	0	0	0	0	5				
6	0	0	0	0	6				
6-minute Average: 0					6-minute Average:				
Source Conditions:					Source Conditions:				
Sun Angle (degrees):					Sun Angle (degrees):				
	Run 12	Time: 2350				Run	Time:		
1	0	0	0	0	1				
2	0	0	0	0	2				
3	0	5	0	0	3				
4	0	0	0	0	4				
5	0	0	0	0	5				
6	0	0	0	0	6				
6-minute Average: 0.2					6-minute Average:				
Source Conditions:					Source Conditions:				
Sun Angle (degrees):					Sun Angle (degrees):				

Range of opacity readings: low 0 high 5

Number of readings above 10 % were 0

Observer's Signature

Sunday Early Morn., February 10th, 2013

Visible Emissions Evaluation

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 2
Date of Observation	02/10/2013
Start Time	0034
Stop Time	342
Distance from observer (ft)	200'
Direction from observer	E
Stack height (fr. observer's elev.) (ft)	8'
Stack Diameter (in)	20' x 8'
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
unique features of plume or stack	—
	@ 0034
Weather:	
ambient temperature (F)	21°
relative humidity	49%
wind direction	South
wind speed	4-10mph
barometric pressure	30.35 inHg
rain? fog? snow? haze?	clear
Glasses worn:	
corrective? (Y/N)	yes
sunglasses? (Y/N)	—

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

Run Number(s) and Description: ACB 2 Runs 1-8

sec	0	15	30	45
Run 1 Time: 0034				
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):				
Run 2 Time: 0100				
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):				
Run 3 Time: 0126				
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):				
Run 4 Time: 0152				
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):				

sec	0	15	30	45
Run 5 Time: 218				
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):				
Run 6 Time: 247				
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):				
Run 7 Time: 310				
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):				
Run 8 Time: 336				
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):				

Range of opacity readings: low 0 high 0

Number of readings above 10 % were 0

Observer's Signature

AVOGADRO ENVIRONMENTAL CORPORATION, Easton Pa

Sunday Early Morn, Feb. 10th 2013

Visible Emissions Evaluation

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 2
Date of Observation	02/10/2013
Start Time	402
Stop Time	540
Distance from observer (ft)	200'
Direction from observer	E
Stack height (fr. observer's elev.) (ft)	8'
Stack Diameter (in)	20' x 8'
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
unique features of plume or stack	—
	@ 402
Weather:	
ambient temperature (F)	19°
relative humidity	54 %
wind direction	South
wind speed	5-9 mph
barometric pressure	30.38 inHg
rain? fog? snow? haze?	clear
Glasses worn:	
corrective? (Y/N)	yes
sunglasses? (Y/N)	—

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

Run Number(s) and Description: ACB 2 Runs 9-13

sec	0	15	30	45	sec	0	15	30	45
min	Run 9 Time: 402				min	Run 13 Time: 534			
1	0	0	0	0	1	0	0	0	0
2	0	0	0	0	2	0	0	0	0
3	0	0	0	0	3	0	0	0	0
4	0	0	0	0	4	0	0	0	0
5	0	0	0	0	5	0	0	0	0
6	0	0	0	0	6	0	0	0	0
6-minute Average: 0					6-minute Average: 0				
Source Conditions:					Source Conditions:				
Sun Angle (degrees):					Sun Angle (degrees):				
	Run 10 Time: 428					Run Time:			
1	0	0	0	0	1				
2	0	0	0	0	2				
3	0	0	0	0	3				
4	0	0	0	0	4				
5	0	0	0	0	5				
6	0	0	0	0	6				
6-minute Average: 0					6-minute Average:				
Source Conditions:					Source Conditions:				
Sun Angle (degrees):					Sun Angle (degrees):				
	Run 11 Time: 454					Run Time:			
1	0	0	0	0	1				
2	0	0	0	0	2				
3	0	0	0	0	3				
4	0	0	0	0	4				
5	0	0	0	0	5				
6	0	0	0	0	6				
6-minute Average: 0					6-minute Average:				
Source Conditions:					Source Conditions:				
Sun Angle (degrees):					Sun Angle (degrees):				
	Run 12 Time: 520					Run Time:			
1	0	0	0	0	1				
2	0	0	0	0	2				
3	0	0	0	0	3				
4	0	0	0	0	4				
5	0	0	0	0	5				
6	0	0	0	0	6				
6-minute Average: 0					6-minute Average:				
Source Conditions:					Source Conditions:				
Sun Angle (degrees):					Sun Angle (degrees):				

Range of opacity readings: low 0 high 0

Number of readings above 10 % were 0

Observer's Signature

AVOGADRO ENVIRONMENTAL CORPORATION, Easton Pa

Visible Emissions Evaluation

UNIT 2

Run Number(s) and Description

Pg. 1 2-10-13

Facility Name	GCC FBF
AVOGADRO Project No.	12-9191
Location (city, state)	Brooklyn NY
Type of Facility	
Control Equipment / Emission Source	ACB
Date of Observation	2-10-13
Start Time	0700
Stop Time	
Distance from observer (ft)	100'
Direction from observer	NW
Stack height (fr. observer's elev.) (ft)	10'
Stack Diameter (in)	20 x 8
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	Top Edge
target?	
describe background to plume	Containers
unique features of plume or stack	
Weather:	
ambient temperature (F)	20°F
relative humidity	
wind direction	SE
wind speed	0-5MP
barometric pressure	
rain? fog? snow? haze?	Clear
Glasses worn:	
corrective? (Y/N)	Y
sunglasses? (Y/N)	N

sec	0	15	30	45
min	Run 1 Time: 700			
1	10	10	5	5
2	5	5	0	0
3	0	0	0	0
4	0	0	5	0
5	0	5	0	0
6	0	0	0	5
6-minute Average:	2.3			
Source Conditions:				
Sun Angle (degrees):	10			
	Run 2 Time: 720			
1	5	5	5	10
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:	5.2			
Source Conditions:				
Sun Angle (degrees):	10			
	Run 3 Time: 740			
1	0	0	0	0
2	0	0	0	0
3	0	0	0	5
4	5	5	0	0
5	0	0	0	0
6	0	0	0	0
6-minute Average:	0.6			
Source Conditions:				
Sun Angle (degrees):	5			
	Run 4 Time: 800			
1	0	0	0	0
2	5	5	0	0
3	5	5	0	0
4	5	5	5	5
5	5	5	5	5
6	5	5	5	5
6-minute Average:	3.3			
Source Conditions:				
Sun Angle (degrees):	5			

sec	0	15	30	45
min	Run 5 Time: 820			
1	5	5	5	5
2	0	0	0	0
3	0	5	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
6-minute Average:	1.0			
Source Conditions:				
Sun Angle (degrees):	5			
	Run 6 Time: 840			
1	10	0	5	5
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	5	5	5	0
6	0	0	0	5
6-minute Average:	1.7			
Source Conditions:				
Sun Angle (degrees):	0			
	Run 7 Time: 900			
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:	0.0			
Source Conditions:				
Sun Angle (degrees):	0			
	Run 8 Time: 920			
1	0	5	5	0
2	0	0	0	0
3	0	5	0	0
4	0	5	5	0
5	0	0	0	0
6	0	0	0	5
6-minute Average:	1.3			
Source Conditions:				
Sun Angle (degrees):	5			

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

Range of opacity readings:

low 0 high 10

Number of readings above 10, % were 0

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	2-10-13
Start Time	940
Stop Time	
Distance from observer (ft)	100'
Direction from observer	NW
Stack height (fr. observer's elev.) (ft)	10'
Stack Diameter (in)	20 x 8
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	Top edge
target?	
describe background to plume	Containers
unique features of plume or stack	
Weather:	
ambient temperature (F)	30°F
relative humidity	
wind direction	E
wind speed	0-5
barometric pressure	
rain? fog? snow? haze?	clear
Glasses worn:	
corrective? (Y/N)	Y
sunglasses? (Y/N)	N

Observer's name	MATTHEW J. READY
Observer certification date	10-22-12
Certifying agency	VOONTZ
Observer affiliation	AVOGADRO/DA

UNIT 2

Run Number(s) and Description

Pg. 2 2-10-13

sec	0	15	30	45
min	Run 9 Time: 940			
1	0	0	0	5
2	5	0	0	0
3	0	0	5	0
4	5	5	5	0
5	0	0	5	5
6	0	0	0	0
6-minute Average:	1.7			
Source Conditions:				
Sun Angle (degrees):	5			
	Run 10 Time: 1000			
1	0	0	0	0
2	0	5	0	0
3	0	0	0	0
4	0	0	0	0
5	5	5	0	0
6	0	0	0	0
6-minute Average:	0.6			
Source Conditions:				
Sun Angle (degrees):	5			
	Run 11 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:	0.0			
Source Conditions:				
Sun Angle (degrees):	10			
	Run 12 Time: 1040			
1	5	5	0	0
2	0	0	0	0
3	0	0	0	0
4	5	0	0	0
5	0	0	0	5
6	0	0	0	0
6-minute Average:	0.8			
Source Conditions:				
Sun Angle (degrees):	10			

sec	0	15	30	45
min	Run 13 Time: 1100			
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:	0.0			
Source Conditions:				
Sun Angle (degrees):	15			
	Run 14 Time: 1120			
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:	0.0			
Source Conditions:				
Sun Angle (degrees):	15			
	Run 15 Time: 1140			
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:	0.0			
Source Conditions:				
Sun Angle (degrees):	15			
	Run 16 Time: 1200			
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:	5.0			
Source Conditions:				
Sun Angle (degrees):	25			

Range of opacity readings:

low 0 high 5

Number of readings above 10 % were 0

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	2-10-13
Start Time	1220
Stop Time	
Distance from observer (ft)	150'
Direction from observer	NE
Stack height (fr. observer's elev.) (ft)	10'
Stack Diameter (in)	20 x 8
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	Top Edge
target?	
describe background to plume	Containers
unique features of plume or stack	
Weather:	
ambient temperature (F)	32°F
relative humidity	
wind direction	E
wind speed	0-5
barometric pressure	
rain? fog? snow? haze?	Clear
Glasses worn:	
corrective? (Y/N)	Y
sunglasses? (Y/N)	N

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

UNIT 2

Run Number(s) and Description

Pg. 3 2-10-13

sec	0	15	30	45
min	Run 17 Time: 1220			
1	5	5	5	5
2	5	5	5	5
3	5	5	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
6-minute Average:				
Source Conditions:				
Sun Angle (degrees):	40			
	Run 18 Time: 1240			
1	5	10	10	10
2	5	5	5	5
3	5	5	10	10
4	10	10	10	10
5	10	10	5	10
6	5	10	10	10
6-minute Average:	8.1			
Source Conditions:				
Sun Angle (degrees):	40			
	Run 19 Time: 1300			
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:	5.0			
Source Conditions:				
Sun Angle (degrees):	30			
	Run 20 Time: 1320			
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:	0.0			
Source Conditions:				
Sun Angle (degrees):	25			

sec	0	15	30	45
min	Run 21 Time: 1340			
1	5	5	5	5
2	10	5	5	5
3	5	5	5	5
4	5	10	10	10
5	5	5	5	5
6	5	5	5	5
6-minute Average:	5.8			
Source Conditions:				
Sun Angle (degrees):	20			
	Run 22 Time: 1400			
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:	0.0			
Source Conditions:				
Sun Angle (degrees):	15			
	Run 23 Time: 1420			
1	0	0	0	0
2	5	5	5	5
3	5	5	5	0
4	0	0	0	0
5	0	0	0	0
6	0	0	5	5
6-minute Average:	1.9			
Source Conditions:				
Sun Angle (degrees):	15			
	Run 24 Time: 1440			
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	5	5	5	5
5	5	0	0	0
6	0	5	0	0
6-minute Average:	1.3			
Source Conditions:				
Sun Angle (degrees):	10			

Range of opacity readings:

low 0 high 10

Number of readings above 10 % were 0

Observer's Signature

Visible Emissions Evaluation

UNIT 2

Run Number(s) and Description

Pg. 4 2-10-13

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	2-10-13
Start Time	1500
Stop Time	
Distance from observer (ft)	150'
Direction from observer	NE
Stack height (fr. observer's elev.) (ft)	10'
Stack Diameter (in)	20 x 8
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	Top Edge
target?	
describe background to plume	Containers
unique features of plume or stack	
Weather:	
ambient temperature (F)	32°F
relative humidity	
wind direction	NE
wind speed	0-5
barometric pressure	
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	KOOMTZ
Observer affiliation	AVOGADRO/DA

sec	0	15	30	45
min	Run 25 Time: 1500			
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:	0.0			
Source Conditions:				
Sun Angle (degrees):	5			
	Run 26 Time: 1520			
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:	0.0			
Source Conditions:				
Sun Angle (degrees):	5			
	Run 27 Time: 1540			
1	10	10	15	15
2	10	10	10	10
3	10	10	15	10
4	5	5	5	10
5	5	5	5	0
6	0	5	5	0
6-minute Average:	7.7			
Source Conditions:				
Sun Angle (degrees):	0			
	Run 28 Time: 1600			
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	5	5	0	0
6	0	0	0	0
6-minute Average:	0.4			
Source Conditions:				
Sun Angle (degrees):	0			

sec	0	15	30	45
min	Run 29 Time: 1620			
1	0	0	0	0
2	5	5	5	5
3	5	5	5	5
4	0	0	0	5
5	0	5	5	0
6	0	0	0	0
6-minute Average:	2.3			
Source Conditions:				
Sun Angle (degrees):	20			
	Run 30 Time: 1640			
1	0	0	0	0
2	0	0	0	5
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
6-minute Average:	0.2			
Source Conditions:				
Sun Angle (degrees):	30			
	Run 31 Time: 1700			
1	5	5	5	5
2	10	5	5	5
3	5	5	5	5
4	5	5	5	5
5	5	5	0	0
6	0	0	0	5
6-minute Average:	4.0			
Source Conditions:				
Sun Angle (degrees):	25			
	Run 32 Time: 1720			
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 3

Observer's Signature

AVOGADRO ENVIRONMENTAL CORPORATION, Easton Pa

Visible Emissions Evaluation

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 2
Date of Observation	02/10/2013
Start Time	1904
Stop Time	2212
Distance from observer (ft)	200'
Direction from observer	E
Stack height (fr. observer's elev.) (ft)	8'
Stack Diameter (in)	20' x 8'

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
unique features of plume or stack	—
	@ 1904

Weather:

ambient temperature (F)	33°
relative humidity	81 %
wind direction	calm
wind speed	calm
barometric pressure	30.36 inHg
rain? fog? snow? haze?	clear

Glasses worn:

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

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

Sunday Night, February 10th, 2013

Run Number(s) and Description

ACB 2 Runs 1-8

sec	0	15	30	45
Run 1 Time: 1904				
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):				
Run 2 Time: 1930				
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):				
Run 3 Time: 1956				
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):				
Run 4 Time: 2022				
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):				

sec	0	15	30	45
Run 5 Time: 2048				
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):				
Run 6 Time: 2114				
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):				
Run 7 Time: 2140				
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):				
Run 8 Time: 2206				
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):				

Range of opacity readings:

low 0 high 0

Number of readings above 10 % were 0

Observer's Signature

Visible Emissions Evaluation

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 2

Date of Observation: 02/10/2013
Start Time: 2232
Stop Time: 2356

Distance from observer (ft): 200'
Direction from observer: E
Stack height (fr. observer's elev.) (ft): 8'
Stack Diameter (in): 20' x 8'

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
- unique features of plume or stack: —

@ 2230

Weather:
- ambient temperature (F): 33°
- relative humidity: 81%
- wind direction: calm
- wind speed: calm
- barometric pressure: 30.36 inHg
- rain? fog? snow? haze?: clear

Glasses worn:
- corrective? (Y/N): yes
- sunglasses? (Y/N): —

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

Sunday Night, February 10th, 2013

Run Number(s) and Description: ACB 2 Runs 9-12

sec	0	15	30	45
Run 9 Time: 2232				
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):				
Run 10 Time: 2258				
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):				
Run 11 Time: 2324				
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):				
Run 12 Time: 2350				
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):				

sec	0	15	30	45
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 0

Number of readings above 10 % were 0

Observer's Signature

AVOGADRO ENVIRONMENTAL CORPORATION, Easton Pa