



March 19, 2026

Aidan Shea
Assistant Engineer
Division of Air Resources
New York State Department of Environmental Conservation, Region 7
5786 Widewaters Parkway
Syracuse, New York 13214

Electronically submitted via email only

RE: Response to Technical Comments to an Air State Facility (ASF) Permit Application for the Broome Bituminous Products Inc. batch mix asphalt plant facility located at 416 Prentice Road, Vestal NY 13850 (Facility) DEC #7-0348-00009/02001 -

Dear Mr. Shea:

P.W. Grosser Consulting Engineer & Hydrogeologist, D.P.C. (PWGC) is submitting this letter on behalf of Broome Bituminous Product, Inc (BBP or client) in response to the New York State Department of Environmental Conservation (NYSDEC or Department) 3.12.26 Technical Comments (see letter in Appendix A) on the Facility ASF Permit application.

This response letter is formatted with text from the Department 3/12/26 Technical Comments notice in **bold**, followed by BBP's response. Please note that.

Comment #1: Some of the emission unit/process descriptions imply the facility operates one vent condenser, but two are listed on the application forms. Could you please clarify how many vent condensers are at the facility (page 28)?

Response to Comment 1:

There is a total of two (2) vapor condensers, one (1) per asphalt cement storage tank. The application has been revised accordingly.

Comment #2: The application uses an asphalt volatility of -0.25 instead of the AP-42 standard value of -0.5 for the silo filling and load out calculations. Can you provide justification for using an alternate value for asphalt volatility (page 58)?

Response to Comment 2:

The value of -0.25 for the asphalt volatility in the silo filling and load out emission calculation is incorrect. These emission calculations have been revised using the -0.5 AP-42 default value for the asphalt volatility.



Comment #3: It appears that one of the constants (0.0172) in the load-out total organic carbon (TOC) emission factor equation is off by a factor of ten. This results in a calculated TOC potential to emit (PTE) value of approximately 35.3 lb/yr instead of 353 lb/yr. Note that this will also change some of the values in Table 5-6 and Table 8. Please correct the constant in the load-out TOC emission factor equation (page 58).

Response to Comment 3:

The first constant in the AP-42 Chapter 11.1 Table 14 formula for the TOC emission calculations has been corrected to 0.0172. The emission calculations and related Tables have been revised accordingly.

Comment #4: The tanks analysis assumes a control efficiency of 90%. If this information was obtained from the manufacture's specifications for the vent condensers, these specifications should be provided as supplemental documentation (page 62).

Response to Comment 4:

The control efficiency of 90% for the vent condensers was estimated based on industry standard for a new condenser. For a conservative approach, a control efficiency of 70% has been used for the emission calculations.

Comment #5: The tanks analysis assumes one heating cycle per year. Can you provide reasoning/justification for this assumption (page 62)?

Response to Comment 5:

The asphalt cement tanks operate in a continuous heating cycle, rather than multiple heating events, and therefore they stay constantly heated for one (1) heating cycle from April to November. Therefore, the daily cycle of warming and cooling of the vapor space due to heat exchange driven by cyclic heating is minimal to none. For a conservative approach, an average of 4 cycles per day (total of 728 cycles per year) has been used for the emission calculations.

Comment #6: How was the annual asphalt throughput for the tank analysis determined (page 62)?

Response to Comment 6:

The annual asphalt throughput for each tank has been calculated multiplying the estimated average production rate of 207,480 ton/year by standard ratio of 13 gall/ton.

Comment #7: The temperature listed on the application for the tanks analysis is in the units of degrees Fahrenheit. USEPA Tanks 5.1 typically requires temperature inputs in the units of degrees Rankine. Please confirm that the tanks analysis was done with temperature in the correct units (approximately 760 degrees R)?

Response to Comment 7:



Confirmed. The tanks emission analysis has been performed with the temperature in Rankine (R) degrees, therefore the 300°F were converted to 760 °R.

Comment #8: The application includes calculations for a 0.25 MMBtu/hr waste oil heater (page 67). Per 6 NYCRR 225-2.4, the facility cannot burn waste oil in a combustion installation with a heat input less than 20 MMBtu/hr unless it is one of the specific facilities listed in 225-2.4(d). Please explain how burning waste oil in this unit is permissible under Subpart 225-2. If it is not, it must cease immediately.

Response to Comment 8:

The Facility is burning waste oil under the condition of 6NYCRR 225-2.4(d), automotive maintenance/service facilities, which is defined under 6NYCRR 225-2.2 (b)(1), as *“Any facility that performs automotive/marine fluid changes, collects automotive/marine fluids, or drains automotive/marine fluids”*.

Comment #9: It seems that the facility wide volatile organic compound (VOC) and total hazardous air pollutant (HAP) PTEs in Table 13 do not include emissions from the asphalt cement tanks. Note that the lb/hr emission rate in Table 9.1 can be used to calculate a TOC PTE of approximately 640 lb/yr per tank (page 68). Please include the tank emissions in the facility wide VOC and HAP PTEs.

Response to Comment 9:

Tanks emissions for VOC and HAP PTEs have been included in the facility wide emission spreadsheet (Table 13).

Comment #10: It seems that the facility wide total HAP PTE and actual emissions in Table 13 do not include HAPs from silo filling and load-out (page 68). Please include the silo filling and load-out emissions in the facility-wide HAP calculation.

Response to Comment 10:

The HAP emissions from silo filling and load-out activities have been included in the facility wide emission spreadsheet (Table 13).

The following Appendices were provided in the previous ASF Application submittal on 2/14/2026

- Appendix A: NYSDEC 9/17/25 NOIA
- Appendix B: BBP NYSDEC ASF Permit application – DEC ID# 7-0348-00009
- Appendix C: Plot Plan/Site Plan
- Appendix D: Facility process flow diagram
- Appendix E: Form for methods used to Determine compliance
- Appendix F: Emissions Calculations
- Appendix G: AERSCREEN Modeling for formaldehyde
- Appendix H: Abbreviated Public Participation Plan
- Appendix I: Full Environmental Assessment Form

As part of this submittal, only the following Appendices have been revised/replaced

Appendix A: NYSDEC 3/12/26 Technical Comments

Appendix B: BBP NYSDEC ASF Permit application – DEC ID# 7-0348-00009 – **rev.1**

Appendix F: Emissions Calculations – **rev .1**

All other appendices are incorporated herein by reference.

Regards,

P.W. GROSSER CONSULTING


Massimiliano Lelli, CSP
Project Manager

ECC: (electronic submittal)

DEP.R7@dec.ny.gov

Andrew LoFaro, P.E. – RAPCE, NYSDEC Region 7 DAR

Jonathan Cronell – Deputy Regional Permit Administrator, NYSDEC Region 7 DAR

Daniel Gates, President – Broome Bituminous Product, Inc.

Jason Farrell, Controller – Broome Bituminous Product, Inc.

Nathan Walz, Safety Director, – Broome Bituminous Product, Inc.

Maryann. Ashworth, PG, VP – PWGC

Edmond Kirby, PE, PM - PWGC

Appendices:

Appendix A: NYSDEC 3/12/26 Technical Comments

Appendix B: BBP NYSDEC ASF Permit application – DEC ID# 7-0348-00009 – rev.1

Appendix F: Emissions Calculations – rev .1

Appendix A
NYSDEC 3/12/26 Technical Comments





March 12, 2026

Daniel Gates
Broome Bituminous Products, Inc.
416 Prentice Road
Vestal, NY 13850
(607) 729-0498

**RE: ASF Application – NYSDEC Technical Comments
DEC ID #7-0348-00009
Broome Bituminous Products, Inc.**

Dear Daniel Gates:

Thank you for the submission of your facility's State facility permit (ASF) application dated February 13, 2026. The following additional information and/or revisions are needed before DEC can continue processing the application:

1. Some of the emission unit/process descriptions imply the facility operates one vent condenser, but two are listed on the application forms. Could you please clarify how many vent condensers are at the facility (page 28)?
2. The application uses an asphalt volatility of -0.25 instead of the AP-42 standard value of -0.5 for the silo filling and load out calculations. Can you provide justification for using an alternate value for asphalt volatility (page 58)?
3. It appears that one of the constants (0.0172) in the load-out total organic carbon (TOC) emission factor equation is off by a factor of ten. This results in a calculated TOC potential to emit (PTE) value of approximately 35.3 lb/yr instead of 353 lb/yr. Note that this will also change some of the values in Table 5-6 and Table 8. Please correct the constant in the load-out TOC emission factor equation (page 58).
4. The tanks analysis assumes a control efficiency of 90%. If this information was obtained from the manufacture's specifications for the vent condensers, these specifications should be provided as supplemental documentation (page 62).
5. The tanks analysis assumes one heating cycle per year. Can you provide reasoning/justification for this assumption (page 62)?
6. How was the annual asphalt throughput for the tank analysis determined (page 62)?

7. The temperature listed on the application for the tanks analysis is in the units of degrees Fahrenheit. USEPA Tanks 5.1 typically requires temperature inputs in the units of degrees Rankine. Please confirm that the tanks analysis was done with temperature in the correct units (approximately 760 degrees R).
8. The application includes calculations for a 0.25 MMBtu/hr waste oil heater (page 67). Per [6 NYCRR 225-2.4](#), the facility cannot burn waste oil in a combustion installation with a heat input less than 20 MMBtu/hr unless it is one of the specific facilities listed in 225-2.4(d). Please explain how burning waste oil in this unit is permissible under Subpart 225-2. If it is not, it must cease immediately.
9. It seems that the facility wide volatile organic compound (VOC) and total hazardous air pollutant (HAP) PTEs in Table 13 do not include emissions from the asphalt cement tanks. Note that the lb/hr emission rate in Table 9.1 can be used to calculate a TOC PTE of approximately 640 lb/yr per tank (page 68). Please include the tank emissions in the facility wide VOC and HAP PTEs.
10. It seems that the facility wide total HAP PTE and actual emissions in Table 13 do not include HAPs from silo filling and load-out (page 68). Please include the silo filling and load-out emissions in the facility-wide HAP calculation.

To address these comments or to ask any questions, please contact me at (315) 426-7485 or at aidan.shea@dec.ny.gov.

Best regards:

Aidan Shea

Aidan Shea
Assistant Engineer
Division of Air Resources
New York State Department of Environmental Conservation,
Region 7, Syracuse, New York.

CC: e-copy,
Andrew LoFaro, P.E., RAPCE, R-7
Jonathan Cronell, Deputy Regional Permit Administrator, R-7
Nathan Walz, Safety Director, Broome Bituminous Products, Inc.
Jason Farrell, Controller, Broome Bituminous Products, Inc.
Massimiliano Lelli, CSP, PWGC
Maryann Ashworth, PG, VP, PWGC
Edmond Kirby, PE, PM, PWGC



Appendix B
BBP NYSDEC ASF Permit application – DEC ID# 7-0348-00009
rev.1 3.19.26



New York State Department of Environmental Conservation Air Permit Application



Department of
Environmental
Conservation

DEC ID										
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Application ID															
-						-				/					

Application Type	
☒ State Facility	Title V

Section I - Certification

Certification	
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information required to complete this application, I believe the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.	
Responsible Official Jason Farrell	Title Controller
Signature	Date 3/19/2026
Professional Engineer Certification	
I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments as they pertain to the practice of engineering. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.	
Professional Engineer Edmond Kirby, P.E.	NYS License Number 105360
Signature	Date 3/19/2026

Section II - Identification Information

Type of Permit Action Requested	
New ☒ Renewal ☐ Significant Modification ☐ Administrative Amendment ☐ Minor Modification ☐	
Application for the construction of a new facility ☐ Application involves the construction of new emission unit(s) ☐	
Facility Information	
Name Broome Bituminous Product, Inc.	
Location Address 416 Prentice Road, Vestal NY	
City / * Town / Village Vestal	Zip 13850
Owner/Firm Information	
Name Broome Bituminous Product, Inc.	
Street Address 416 Prentice Road	
City Vestal	State/Province NY
Country USA	Zip 13850
Owner Classification: Federal ☐ State ☐ Municipal ☐ * Corporation/Partnership ☒ Individual ☐	
Owner/Firm Contact Information	
Name Daniel Gates	Phone 607-729-0498
E-mail Address dgates@broomebituminous.com	Fax 607-729-0853
Affiliation Broome Bituminous Product, Inc.	Title President
Street Address 416 Prentice Road	
City Vestal	State/Province NY
Country USA	Zip 13850
Facility Contact Information	
Name Daniel Gates	Phone 607-729-0498
E-mail Address dgates@broomebituminous.com	Fax 607-729-0853
Affiliation Broome Bituminous Product, Inc.	Title President
Street Address 416 Prentice Road	
City Vestal	State/Province NY
Country USA	Zip 13850

New York State Department of Environmental Conservation

Air Permit Application



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7	-	0	3	4	8	-	0	0	0	9

Project Description	☐ Continuation Sheet(s)
The applicant proposes to continue operating an existing asphalt plant. NYSDEC has requested the applicant to upgrade the existing Air Facility Registration to a State Facility Permit for the existing asphalt plant at 416 Prentice Rd, Vestal, NY 13850 as per 6NCYRR 201-4.1(b) due to the recently issued 6NYCRR Part 220. The asphalt plant has been in operation for 37 years and there no changes in operations.	

Section III - Facility Information

Facility Classification					
☐ Hospital	☐ Residential	☐ Educational/Institutional	☐ Commercial	☒ Industrial	☐ Utility
Affected States (Title V Applications Only)					
☐ Vermont	☐ Massachusetts	☐ Rhode Island	☐ Pennsylvania	Tribal Land: _____	
☐ New Hampshire	☐ Connecticut	☐ New Jersey	☐ Ohio	Tribal Land: _____	

SIC Code(s)			NAICS Code(s)		
2951			237310		

Facility Description	☐ Continuation Sheet(s)
The plant consists of a hot elevator, screens, cold feed bins, mixer, natural gas rotary dryer, baghouse with cloth filters, two silos and two asphalt cement tanks with a natural gas hot oil burner. The asphalt plant provides hot and warm mix asphalt for local public and private paving operations. The production of asphalt begins with using a loader to fill cold feed bins with aggregates (stone, sand and recycled asphalt product (RAP). These aggregates are then fed into the plant by conveyor belts, heated and mixed with hot liquid asphalt cement to create the finished hot or warm mix asphalt. The finished asphalt product is then either loaded into transport vehicles or loaded into storage silos to be used later. The emission of NOx, VOC and CO are capped below the major facility thresholds in 6NYCRR Part 201 through production limits.	

Compliance Statements (Title V Applications Only)
I certify that as of the date of this application the facility is in compliance with all applicable requirements. Yes No If one or more emission units at the facility are not in compliance with all applicable requirements at the time of signing this application (the 'NO' box must be checked), the noncomplying units must be identified in the "Compliance Plan" block on page 8 of this form along with the compliance plan information required. For all emission units at the facility that are operating <u>in compliance</u> with all applicable requirements, complete the following: ☐ This facility will continue to be operated and maintained in such a manner as to assure compliance for the duration of the permit, except those emission units referenced in the compliance plan portion of this application. For all emission units subject to any applicable requirements that will become effective during the term of the permit, this facility will meet such requirements on a timely basis. Compliance certification reports will be submitted at least once per year. Each report will certify compliance status with respect to each applicable requirement, and the method used to determine the status.

Facility Applicable Federal Requirements									☐ Continuation Sheet(s)
Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	201	7	1					
6	NYCRR	211	2						
6	NYCRR	230	3	3		(a)			
6	NYCRR	230	3	3		(b)			

Facility State Only Requirements									☐ Continuation Sheet(s)
Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	201	1	4					
6	NYCRR	201	5						
6	NYCRR	201	5	2		(c)			
6	NYCRR	201	5	3		(c)			

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Section III - Facility Information

[illegible]

NEW YORK
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**Department of
Environmental
Conservation**

DEC ID										
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Section III - Facility Information

[illegible]

New York State Department of Environmental Conservation

Air Permit Application



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9									

Facility Compliance Certification										x Continuation Sheet(s)	
Rule Citation											
Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause		
6	NYCRR	201	7	1							
* Applicable Federal Requirement			* Capping		CAS Number		Contaminant Name				
State Only Requirement					ONY210-00-0		OXIDES OF NITROGEN				
Monitoring Information											
* Work Practice Involving Specific Operations				Ambient Air Monitoring				Record Keeping/Maintenance Procedures			
Compliance Activity Description											
Production is capped at 249,000 TPY of HMA creating a PTE of 3.11 TPY of NOx											
Work Practice Type Code		Process Material				Reference Test Method					
		Code	Description								
03		155	asphalt								
Monitored Parameter						Manufacturer's Name/Model Number					
Code		Description									
Limit			Limit Units								
Upper		Lower		Code	Description						
249,000				28	tons per year						
Averaging Method				Monitoring Frequency				Reporting Requirements			
Code	Description			Code	Description			Code	Description		
17	annual max rolled monthly			05	monthly			09	annual		
Facility Emissions Summary										Continuation Sheet(s)	
CAS Number	Contaminant Name					Potential to Emit (tons/yr)	Actual Emissions (pounds/yr)				
ONY075 - 00 - 5	PM-10					3.59	5,994.61				
ONY750 - 02 - 5	PM-2.5					1.03	1,725.07				
007446 - 09 - 5	Sulfur Dioxide					0.57	956.06				
ONY210 - 00 - 0	Oxides of Nitrogen					3.11	5,196.00				
000630 - 08 - 0	Carbon Monoxide					50.31	83,857.50				
007439 - 92 - 1	Lead (elemental)					1.11E-04	0.18				
ONY998 - 00 - 0	Total Volatile Organic Compounds					5.74	7,069.11				
ONY100 - 00 - 0	Total Hazardous Air Pollutants					1.02	1,590.83				
ONY750 - 00 - 0	Carbon Dioxide Equivalents					6,410.03	7,690,080				

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Section III - Facility Information

Facility Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	201	7	1					
☒ Applicable Federal Requirement ☐ State Only Requirement			☐ Capping	CAS No.		Contaminant Name			
				000630-08-0		CARBON MONOXIDE			
Monitoring Information									
☐ Continuous Emission Monitoring ☐ Intermittent Emission Testing ☐ Ambient Air Monitoring					☐ Monitoring of Process or Control Device Parameters as a Surrogate ☒ Work Practice Involving Specific Operations ☐ Record Keeping/Maintenance Procedures				
Description									
Production is capped at 249,000 TPY of HMA creating a PTE of <u>50.31</u> TPY of CO									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
03	155	asphalt							
Parameter		Manufacturer Name/Model No.							
Code	Description								
Limit				Limit Units					
Upper		Lower		Code	Description				
249,000				38	tons per year				
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
17	annual max rolled monthly		05	monthly		09	annual		

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Facility Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	201	7	1					
☒ Applicable Federal Requirement ☐ State Only Requirement			☐ Capping	CAS No.		Contaminant Name			
				0NY998-00-0		VOLATILE ORGANIC COMPOUNDS			
Monitoring Information									
☐ Continuous Emission Monitoring ☐ Intermittent Emission Testing ☐ Ambient Air Monitoring					☐ Monitoring of Process or Control Device Parameters as a Surrogate ☒ Work Practice Involving Specific Operations ☐ Record Keeping/Maintenance Procedures				
Description									
Production is capped at 249,000 TPY of HMA creating a PTE of <u>5.74</u> TPY of VOCs									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
03	155	asphalt							
Parameter		Manufacturer Name/Model No.							
Code	Description								
Limit				Limit Units					
Upper		Lower		Code	Description				
249,000				38	tons per year				
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
17	annual max rolled monthly		05	monthly		09	annual		

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Section III - Facility Information

Facility Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	230	3	3		(a)			
☒ Applicable Federal Requirement ☐ State Only Requirement			☐ Capping	CAS No.		Contaminant Name			
Monitoring Information									
☐ Continuous Emission Monitoring ☐ Intermittent Emission Testing ☐ Ambient Air Monitoring					☐ Monitoring of Process or Control Device Parameters as a Surrogate ☐ Work Practice Involving Specific Operations ☒ Record Keeping/Maintenance Procedures				
Description									
Owners or operators of an Asphalt Mixture Manufacturing Plant shall record the following information once daily, as applicable, for each Asphalt Mixture Processing Unit during operation in a calendar year: (1) Tons produced of asphalt mixture; (2) RAP used in tons of material; (3) Recorded hours of burner operation; (4) Baghouse differential pressure; (5) Warm mix tons produced; (6) Amount of fuel consumed; (7) Type of fuel consumed; (8) Instantaneous visual stack opacity reading by a trained employee that fulfills the requirements of 40 CFR Part 60, Appendix A-4, Method 9; (9) Typical stack temperature during operations; (10) RAP moisture content; and (11) Maintain annual records of Visible Emissions (Opacity) Training. These records shall be maintained on site for at least two years after issuance of the permit and may be stored offsite (including electronic storage) afterwards for the life of the permit. Access to such offsite records must be made available in a timely manner if requested by the Department									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
Parameter						Manufacturer Name/Model No.			
Code	Description								
Limit					Limit Units				
Upper		Lower		Code	Description				
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
			03	daily		16	upon request by NYSDEC		

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Section III - Facility Information

Facility Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	230	3	3		(b)	(1)		
☒ Applicable Federal Requirement ☐ State Only Requirement			☐ Capping	CAS No.		Contaminant Name			
Monitoring Information									
☐ Continuous Emission Monitoring ☐ Intermittent Emission Testing ☐ Ambient Air Monitoring					☐ Monitoring of Process or Control Device Parameters as a Surrogate ☐ Work Practice Involving Specific Operations ☒ Record Keeping/Maintenance Procedures				
Description									
As of the effective date of this Subpart, an annual service must be performed by a qualified employee or vendor on the dryer burner of any Asphalt Mixture Processing Unit that is in operation during that calendar year. All annual service records shall be maintained on site for at least two years after issuance of the permit and may be stored offsite (including electronic storage) afterwards for the life of the permit. Access to such offsite records must be made available in a timely manner if requested by the Department.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
Parameter						Manufacturer Name/Model No.			
Code	Description								
Limit				Limit Units					
Upper		Lower		Code	Description				
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
			09	annually		10	upon request by NYSDEC		

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New York State Department of Environmental Conservation Air Permit Application Form



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Section III - Facility Information

Facility Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	230	3	3		(b)	(2)		
☒ Applicable Federal Requirement ☐ State Only Requirement			☐ Capping	CAS No.		Contaminant Name			
Monitoring Information									
☐ Continuous Emission Monitoring ☐ Intermittent Emission Testing ☐ Ambient Air Monitoring					☐ Monitoring of Process or Control Device Parameters as a Surrogate ☐ Work Practice Involving Specific Operations ☒ Record Keeping/Maintenance Procedures				
Description									
As of the effective date of this Subpart, an annual tune-up must be performed by a qualified employee or vendor on the hot oil heater located at any Asphalt Manufacturing Plant that is in operation during that calendar year.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
Parameter		Manufacturer Name/Model No.							
Code	Description								
Limit				Limit Units					
Upper		Lower		Code	Description				
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
			09	annually		10	upon request by NYSDEC		

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Facility Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	230	3	3		(b)	(4)		
☒ Applicable Federal Requirement ☐ State Only Requirement			☐ Capping	CAS No.		Contaminant Name			
Monitoring Information									
☐ Continuous Emission Monitoring ☐ Intermittent Emission Testing ☐ Ambient Air Monitoring					☐ Monitoring of Process or Control Device Parameters as a Surrogate ☐ Work Practice Involving Specific Operations ☒ Record Keeping/Maintenance Procedures				
Description									
The owner or operator shall: (i) perform an annual visual inspection of baghouse tubesheet and internal structure. Record findings and any corrective actions. (ii) replacement bags for the baghouse shall be kept on site with the minimum capability of at least a 20% bag change out. Record changed bag locations on baghouse tube map. The owner or operator shall inspect all ductwork for leaks and perform needed maintenance prior to operating during the asphalt production season. The owner or operator shall maintain annual records of baghouse and ductwork inspections. All of these records shall be maintained on site for at least two years after issuance of the permit and may be stored offsite (including electronic storage) afterwards for the life of the permit. Access to such offsite records must be made available in a timely manner if requested by the Department.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
Parameter					Manufacturer Name/Model No.				
Code	Description								
Limit				Limit Units					
Upper		Lower		Code	Description				
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
			09	annually		10	upon request by NYSDEC		

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Section III - Facility Information

Facility Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	230	3	5		(b)			
☒ Applicable Federal Requirement ☐ State Only Requirement			☐ Capping	CAS No.		Contaminant Name			
				0NY075-00-0		PARTICULATES			
Monitoring Information									
☐ Continuous Emission Monitoring ☒ Intermittent Emission Testing ☐ Ambient Air Monitoring					☐ Monitoring of Process or Control Device Parameters as a Surrogate ☐ Work Practice Involving Specific Operations ☐ Record Keeping/Maintenance Procedures				
Description									
The owner or operator of any existing aggregate dryer must submit, at least thirty (30) calendar days prior to commencing an emission test, a test protocol to the department for review and approval. The owner or operator must submit a complete test report to the department no later than sixty (60) calendar days after completion of the on-site testing. Monitoring records stating the following information shall be maintained on site for at least two years after issuance of the permit and may be stored offsite (including electronic storage) afterwards for the life of the permit. Access to such offsite records must be made available in a timely manner if requested by the department.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
					Method 5 and Method 202				
Parameter						Manufacturer Name/Model No.			
Code	Description								
Limit					Limit Units				
Upper		Lower		Code	Description				
0.03				391	grains per standard cubic foot				
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
08	1-hour average		17	once during the term of the permit		01	once/batch or monitoring occurrence		

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Section III - Facility Information

Facility Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	230	3	5		(b)			
☒ Applicable Federal Requirement ☐ State Only Requirement			☐ Capping	CAS No.		Contaminant Name			
				0NY210-00-0		OXIDES OF NITROGEN			
Monitoring Information									
☐ Continuous Emission Monitoring ☒ Intermittent Emission Testing ☐ Ambient Air Monitoring					☐ Monitoring of Process or Control Device Parameters as a Surrogate ☐ Work Practice Involving Specific Operations ☐ Record Keeping/Maintenance Procedures				
Description									
The owner or operator of any existing aggregate dryer must submit, at least thirty (30) calendar days prior to commencing an emission test, a test protocol to the department for review and approval. The owner or operator must submit a complete test report to the department no later than sixty (60) calendar days after completion of the on-site testing. Monitoring records stating the following information shall be maintained on site for at least two years after issuance of the permit and may be stored offsite (including electronic storage) afterwards for the life of the permit. Access to such offsite records must be made available in a timely manner if requested by the department.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
					Method 7				
Parameter		Manufacturer Name/Model No.							
Code	Description								
Limit				Limit Units					
Upper		Lower		Code	Description				
0.096				7	pounds per million BTUs				
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
08	1-hour average		17	once during the term of the permit		01	once/batch or monitoring occurrence		

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Section III - Facility Information

Facility Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	230	3	8		(a)			
☒ Applicable Federal Requirement ☐ State Only Requirement			☐ Capping	CAS No.		Contaminant Name			
Monitoring Information									
☐ Continuous Emission Monitoring ☐ Intermittent Emission Testing ☐ Ambient Air Monitoring				☒ Monitoring of Process or Control Device Parameters as a Surrogate ☐ Work Practice Involving Specific Operations ☐ Record Keeping/Maintenance Procedures					
Description									
No facility owner or operator shall cause or allow emissions to exceed an average opacity of 20 percent or greater during any six consecutive minutes from any process emission source or emission point.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
						Method 9			
Parameter						Manufacturer Name/Model No.			
Code	Description								
01	OPACITY								
Limit					Limit Units				
Upper		Lower		Code	Description				
20				136	percent				
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
44	6-minute average		09	annually		10	upon request by NYSDEC		

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Section III - Facility Information

Facility Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	230	3	9		(c)			
☒ Applicable Federal Requirement ☐ State Only Requirement			☐ Capping	CAS No.		Contaminant Name			
Monitoring Information									
☐ Continuous Emission Monitoring ☐ Intermittent Emission Testing ☐ Ambient Air Monitoring				☐ Monitoring of Process or Control Device Parameters as a Surrogate ☐ Work Practice Involving Specific Operations ☒ Record Keeping/Maintenance Procedures					
Description									
The owner or operator shall conduct a burner tuning procedure in accordance with the manufacturer's specifications to minimize NOx and carbon monoxide (CO) emissions each calendar year. The following information shall be monitored and recorded: (i) the date of the tuning procedure; (ii) the name of the servicing company/qualified internal staff/technician; (iii) the production rate (tons/hr) or load before and after tuning; (iv) the NOx and CO concentrations (ppmvd @ 3% O2) before and after tuning; and (v) the percent O2 before and after tuning. Records of this information shall be maintained on site for at least two years after issuance of the permit and may be stored offsite (including electronic storage) afterwards for the life of the permit. Access to such offsite records must be made available in a timely manner if requested by the Department.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
						Method 9			
		Parameter				Manufacturer Name/Model No.			
Code	Description								
Limit				Limit Units					
Upper		Lower		Code	Description				
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
			09	annually		10	upon request by NYSDEC		

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Section IV - Emission Unit Information

Emission Unit Description										☐ Continuation Sheet(s)
Emission Unit	V	-	0	0	0	0	1			
Emission unit V-00001 consists of a batch hot mix asphalt plant with a Hauk SJ-580 burner rated at 120MMBTU/hr firing natural gas. Emissions are controlled by a Gencore baghouse equipped with fabric filters. This emission unit also include two (2) truck load out operations and filling of two (2) silos. All other facility equipment is powered by utility supplied line-power electric.										

Building Information					☐ Continuation Sheet(s)
Building ID	Building Name	Length (ft)	Width (ft)	Orientation	
CT	Plant control Tower	40	25	210	

Emission Unit		Emission Unit Emissions Summary				☐ Continuation Sheet(s)
V	-	0	0	0	0	1
CAS Number		Contaminant Name				
		See Tables 1,2				
ERP (lbs/yr)	Potential to Emit		Actual Emissions			
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)		
CAS Number		Contaminant Name				
ERP (lbs/yr)	Potential to Emit		Actual Emissions			
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)		
CAS Number		Contaminant Name				
ERP (lbs/yr)	Potential to Emit		Actual Emissions			
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)		
CAS Number		Contaminant Name				
ERP (lbs/yr)	Potential to Emit		Actual Emissions			
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)		

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Section IV - Emission Unit Information

Emission Unit Description (continuation)											
Emission Unit	1	-	A	C	T	K	S				
This emission unit consist of two (2) 35,000 gallon Meeker asphalt cement tanks with an ANSI 6" flange top-mounted vapor condenser, one on each tank, for a total of 2 vapor condensers. Each vapor condenser is constructed of a top and bottom housing and a series 2" Schedule 10 finned tubes to provide maximum surface area and cooling. A 24" bolted access is provided on the top of the condenser for inspection and cleaning. As the vapors captured within the condenser begin to cool, they will return to a liquid state and be re-directed back into the tank. This emission unit also include a natural gas Power Flame Burner, rated at 2.1 MMBTU/hr, that heats the liquid asphalt cement, on average approx. 400 hrs/yr, prior to mixing with aggregate (emission is exempt as per 6 NYCRR 201-3.2 (c)(1)(i)).											

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9									

Section IV - Emission Unit Information

Emission Unit		Emission Unit Emissions Summary (continuation)			
1	- A C T K S				
CAS Number		Contaminant Name			
		See Tables 9.1 - 9.3			
ERP (lbs/yr)	Potential to Emit		Actual Emissions		
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	
	NA (fugitive)		NA (fugitive)		
CAS Number		Contaminant Name			
ERP (lbs/yr)	Potential to Emit		Actual Emissions		
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	
CAS Number		Contaminant Name			
ERP (lbs/yr)	Potential to Emit		Actual Emissions		
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	
CAS Number		Contaminant Name			
ERP (lbs/yr)	Potential to Emit		Actual Emissions		
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	
CAS Number		Contaminant Name			
ERP (lbs/yr)	Potential to Emit		Actual Emissions		
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	
CAS Number		Contaminant Name			
ERP (lbs/yr)	Potential to Emit		Actual Emissions		
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	
CAS Number		Contaminant Name			
ERP (lbs/yr)	Potential to Emit		Actual Emissions		
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	
CAS Number		Contaminant Name			
ERP (lbs/yr)	Potential to Emit		Actual Emissions		
	(lbs/hr)	(lbs/yr)	(lbs/hr)	(lbs/yr)	

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9									

Emission Point Information							☐ Continuation Sheet(s)
Emission Point	S	T	0	0	1		
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section		
					Length (in)	Width (in)	
850	53	23		284	48	48	
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal	
54.7	52500	417501.207	4661866.060		58		
Emission Point							
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section		
					Length (in)	Width (in)	
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal	
Emission Point							
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section		
					Length (in)	Width (in)	
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (KM)	NYTM (N) (KM)	Building	Distance to Property Line (ft)	Date of Removal	

Emission Source/Control Information								☐ Continuation Sheet(s)
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model Number	
ID	Type				Code	Description		
B	U	0	0	1	C	02/05	04/05	
Design Capacity		Design Capacity Units			Waste Feed		Waste Type	
		Code	Description		Code	Description	Code	
120	25							
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model Number	
ID	Type				Code	Description		
B	A	0	0	1	K	02/05	04/05	
Design Capacity		Design Capacity Units			Waste Feed		Waste Type	
		Code	Description		Code	Description	Code	
70000	39							
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model Number	
ID	Type				Code	Description		
T	L	0	A	D	I	02/05	04/05	
Design Capacity		Design Capacity Units			Waste Feed		Waste Type	
		Code	Description		Code	Description	Code	

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9									

Section IV - Emission Unit Information

Emission Source/Control (continuation)									
Emission Unit		V - 0 0 0 0 1							
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
SILOF	I	02/05	04/05						
Design Capacity	Design Capacity Units				Waste Feed		Waste Type		
	Code	Description			Code	Description	Code	Description	
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
Design Capacity	Design Capacity Units				Waste Feed		Waste Type		
	Code	Description			Code	Description	Code	Description	
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
Design Capacity	Design Capacity Units				Waste Feed		Waste Type		
	Code	Description			Code	Description	Code	Description	
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
Design Capacity	Design Capacity Units				Waste Feed		Waste Type		
	Code	Description			Code	Description	Code	Description	
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
Design Capacity	Design Capacity Units				Waste Feed		Waste Type		
	Code	Description			Code	Description	Code	Description	
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
Design Capacity	Design Capacity Units				Waste Feed		Waste Type		
	Code	Description			Code	Description	Code	Description	

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Section IV - Emission Unit Information

Emission Point Information (continuation)										
Emission Unit		1 - A C T K S				Emission Point		C O N D 1		
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section					
					Length (in)		Width (in)			
850	46	16	6	284						
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (km)	NYTM (N) (km)	Building	Distance to Property Line (ft)		Date of Removal			
		417524.722	4661881.504		105					
Emission Unit		1 - A C T K S				Emission Point		C O N D 2		
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section					
					Length (in)		Width (in)			
850	46	16	6	284						
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (km)	NYTM (N) (km)	Building	Distance to Property Line (ft)		Date of Removal			
		417527.592	4661870.401		125					
Emission Unit		- - - - -				Emission Point		- - - - -		
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section					
					Length (in)		Width (in)			
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (km)	NYTM (N) (km)	Building	Distance to Property Line (ft)		Date of Removal			
Emission Unit		- - - - -				Emission Point		- - - - -		
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section					
					Length (in)		Width (in)			
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (km)	NYTM (N) (km)	Building	Distance to Property Line (ft)		Date of Removal			
Emission Unit		- - - - -				Emission Point		- - - - -		
Ground Elevation (ft)	Height (ft)	Height Above Structure (ft)	Inside Diameter (in)	Exit Temp. (°F)	Cross Section					
					Length (in)		Width (in)			
Exit Velocity (FPS)	Exit Flow (ACFM)	NYTM (E) (km)	NYTM (N) (km)	Building	Distance to Property Line (ft)		Date of Removal			

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Section IV - Emission Unit Information

Emission Source/Control (continuation)									
Emission Unit		1 - A C T K S							
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
TANK1	I	7/15/2025	7/15/2025		047	vapor condenser	Meeker		
Design Capacity	Design Capacity Units				Waste Feed		Waste Type		
	Code	Description			Code	Description	Code	Description	
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
TANK2	I	7/15/2025	7/15/2025		047	vapor condenser	Meeker		
Design Capacity	Design Capacity Units				Waste Feed		Waste Type		
	Code	Description			Code	Description	Code	Description	
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
Design Capacity	Design Capacity Units				Waste Feed		Waste Type		
	Code	Description			Code	Description	Code	Description	
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
Design Capacity	Design Capacity Units				Waste Feed		Waste Type		
	Code	Description			Code	Description	Code	Description	
Emission Source		Date of Construction	Date of Operation	Date of Removal	Control Type		Manufacturer's Name/Model No.		
ID	Type				Code	Description			
Design Capacity	Design Capacity Units				Waste Feed		Waste Type		
	Code	Description			Code	Description	Code	Description	

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Process Information										☐ Continuation Sheet(s)	
Emission Unit	V	-	0	0	0	0	1	Process	H	M	A

Process Description
This process is for the production of hot mix asphalt in a batch plant. This includes the 120 MMBTU/hr natural gas fired rotary dryer, a baghouse with cloth filters, two (2) truck load out operations and filling of two (2) silos.

Source Classification Code (SCC)	Total Throughput		Throughput Quantity Units	
	Quantity/Hr	Quantity/Yr	Code	Description
3-05-002-45	300	249,000	017	tons of asphalt
Confidential Operating at Maximum Capacity	Operating Schedule		Building	Floor/Location
	Hours/Day	Days/Year		
	8.8	182		

Emission Point Identifier(s)					
ST001					

Emission Source/Control Identifier(s)					
BU001	BA001	TLOAD	SILOF		

Emission Unit	1	-	A	C	T	K	S	Process	A	C	T
---------------	---	---	---	---	---	---	---	---------	---	---	---

Process Description
This process consist of two (2) 35,000 gallon Meeker asphalt cement (AC) tanks for storage of AC. AC Tanks are equipped with an ANSI 6" flange top-mounted vapor condenser, <u>one per tank</u>. This emission unit also include a natural gas Power Flame Burner, rated at 2.1 MMBTU/hr, that heats the liquid asphalt cement, on average approx. 400 hrs/yr, prior to mixing with aggregate (emission is exempt as per 6 NYCRR 201-3.2 (c)(1)(i)).

Source Classification Code (SCC)	Total Throughput		Throughput Quantity Units	
	Quantity/Hr	Quantity/Yr	Code	Description
3-05-002-12	1.690	2701920	0614	1000 gal. throughput
Confidential Operating at Maximum Capacity	Operating Schedule		Building	Floor/Location
	Hours/Day	Days/Year		
	8.8	182		

Emission Point Identifier(s)					
COND1	COND2				

Emission Source/Control Identifier(s)					
TANK1	TANK2				

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Process Emissions Summary										Continuation Sheet(s)	
Emission Unit	V - 0 0 0 0 1					Process		HMA			
CAS Number	Contaminant Name		% Thruput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined				
	(see Tables 1 and 2)			100			03				
Potential to Emit			Standard Units	Potential to Emit How Determined	Actual Emissions						
(lbs/hr)	(lbs/yr)	(standard units)			(lbs/hr)	(lbs/yr)					
Emission Unit	V - 0 0 0 0 1					Process		HMA			
CAS Number	Contaminant Name		% Thruput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined				
	PM (see Tables 1 and 2)			100	90		03				
Potential to Emit			Standard Units	Potential to Emit How Determined	Actual Emissions						
(lbs/hr)	(lbs/yr)	(standard units)			(lbs/hr)	(lbs/yr)					
Emission Unit	1 - A C T K S					Process		ACT			
CAS Number	Contaminant Name		% Thruput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined				
ONY998-00-0	VOC		100	100	70	0.439	03				
Potential to Emit			Standard Units	Potential to Emit How Determined	Actual Emissions						
(lbs/hr)	(lbs/yr)	(standard units)			(lbs/hr)	(lbs/yr)					
NA	fugitive					0.439	702.00				
Emission Source Emissions Summary										Continuation Sheet(s)	
Emission Source	BA001					Process		HMA			
CAS Number	Contaminant Name		% Thruput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined				
Potential to Emit			Standard Units	Potential to Emit How Determined	Actual Emissions						
(lbs/hr)	(lbs/yr)	(standard units)			(lbs/hr)	(lbs/yr)					
Emission Source	BU001					Process		HMA			
CAS Number	Contaminant Name		% Thruput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined				
Potential to Emit			Standard Units	Potential to Emit How Determined	Actual Emissions						
(lbs/hr)	(lbs/yr)	(standard units)			(lbs/hr)	(lbs/yr)					
Emission Source	TLOAD					Process		HMA			
CAS Number	Contaminant Name		% Thruput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined				
Potential to Emit			Standard Units	Potential to Emit How Determined	Actual Emissions						
(lbs/hr)	(lbs/yr)	(standard units)			(lbs/hr)	(lbs/yr)					

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Process Emissions Summary										Continuation Sheet(s)		
Emission Unit	-									Process		
CAS Number	Contaminant Name				% Thruput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined			
Potential to Emit					Standard Units	Potential to Emit How Determined	Actual Emissions					
(lbs/hr)	(lbs/yr)	(standard units)		(lbs/hr)			(lbs/yr)					
Emission Unit	-									Process		
CAS Number	Contaminant Name				% Thruput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined			
Potential to Emit					Standard Units	Potential to Emit How Determined	Actual Emissions					
(lbs/hr)	(lbs/yr)	(standard units)		(lbs/hr)			(lbs/yr)					
Emission Unit	-									Process		
CAS Number	Contaminant Name				% Thruput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined			
Potential to Emit					Standard Units	Potential to Emit How Determined	Actual Emissions					
(lbs/hr)	(lbs/yr)	(standard units)		(lbs/hr)			(lbs/yr)					

Emission Source Emissions Summary										Continuation Sheet(s)			
Emission Source	S	I	L	O	F					Process	H	M	A
CAS Number	Contaminant Name				% Thruput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined				
Potential to Emit					Standard Units	Potential to Emit How Determined	Actual Emissions						
(lbs/hr)	(lbs/yr)	(standard units)		(lbs/hr)			(lbs/yr)						
Emission Source	C	O	N	D	1					Process	A	C	T
CAS Number	Contaminant Name				% Thruput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined				
Potential to Emit					Standard Units	Potential to Emit How Determined	Actual Emissions						
(lbs/hr)	(lbs/yr)	(standard units)		(lbs/hr)			(lbs/yr)						
Emission Source	C	O	N	D	2					Process	A	C	T
CAS Number	Contaminant Name				% Thruput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined				
Potential to Emit					Standard Units	Potential to Emit How Determined	Actual Emissions						
(lbs/hr)	(lbs/yr)	(standard units)		(lbs/hr)			(lbs/yr)						

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Emission Unit	Emission Point	Process	Emission Source	Emission Unit Applicable Federal Requirements							✕ Continuation Sheet(s)		
				Title	Type	Part	Subpart	Section	Subdiv.	Parag.	Subparag.	Cl.	Subcl.
V-0001	ST001	HMA	BA001-BU001	6	NYCRR	230	3	3		(a)			
V-0001	ST001	HMA	BA001-BU001	6	NYCRR	230	3	3		(b)			
V-0001	ST001	HMA	BA001-BU001	6	NYCRR	230	3	5					
V-0001	ST001	HMA	BA001-BU001	6	NYCRR	230	3	8		(a)			

Emission Unit	Emission Point	Process	Emission Source	Emission Unit State Only Requirements							Continuation Sheet(s)		
				Title	Type	Part	Subpart	Section	Subdiv.	Parag.	Subparag.	Cl.	Subcl.

Emission Unit Compliance Certification ✕ Continuation Sheet(s)

Rule Citation									
Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	220	3	3		(a)			

✕ Applicable Federal Requirement State Only Requirement Capping

Emission Unit	Emission Point	Process	Emission Source	CAS Number	Contaminant Name
V-0001	ST001	HMA	BA001-BU001		

Monitoring Information

Continuous Emission Monitoring ☐ Monitoring of a Process or Control Device Parameters as a Surrogate
 Intermittent Emission Testing ☐ Work Practice Involving Specific Operations
 Ambient Air Monitoring ✕ Record Keeping/Maintenance Procedures

Compliance Activity Description

Owners or operators of an Asphalt Mixture Manufacturing Plant shall record the following information once daily, as applicable, for each Asphalt Mixture Processing Unit during operation in a calendar year:
 (1) Tons produced of asphalt mixture; (2) RAP used in tons of material; (3) Recorded hours of burner operation; (4) Baghouse differential pressure; (5) Warm mix tons produced; (6) Amount of fuel consumed; (7) Type of fuel consumed; (8) Instantaneous visual stack opacity reading by a trained employee that fulfills the requirements of 40 CFR Part 60, Appendix A-4, Method 9; (9) Typical stack temperature during operations; (10) RAP moisture content; and (11) Maintain annual records of Visible Emissions (Opacity) Training.
 These records shall be maintained on site for at least two years after issuance of the permit and may be stored offsite (including electronic storage) afterwards for the life of the permit.

Work Practice Type Code	Process Material			Reference Test Method	
	Code	Description			
Monitored Parameter				Manufacturer's Name/Model Number	
Code	Description				
Limit		Limit Units			
Upper	Lower	Code	Description		
Averaging Method		Monitoring Frequency		Reporting Requirements	
Code	Description	Code	Description	Code	Description
		03	daily	16	upon request by NYSDEC

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	220	3	3		(b)			
☐ Applicable Federal Requirement ☐ State Only Requirement						☐ Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name				
V-0001	ST001	HMA	BA001-BU001						
Monitoring Information									
☐ Continuous Emission Monitoring ☐ Monitoring of Process or Control Device Parameters as a Surrogate									
☐ Intermittent Emission Testing ☐ Work Practice Involving Specific Operations									
☐ Ambient Air Monitoring ☒ Record Keeping/Maintenance Procedures									
Description									
(1) As of the effective date of this Subpart, an annual service must be performed by a qualified employee or vendor on the dryer burner of any Asphalt Mixture Processing Unit that is in operation during that calendar year. All annual service records shall be maintained on site for at least two years after issuance of the permit and may be stored offsite (including electronic storage) afterwards for the life of the permit. Access to such offsite records must be made available in a timely manner if requested by the Department. (2) As of the effective date of this Subpart, an annual tune-up must be performed by a qualified employee or vendor on the hot oil heater located at any Asphalt Manufacturing Plant that is in operation during that calendar year. (4) The owner or operator shall: (i) perform an annual visual inspection of baghouse tubesheet and internal structure. Record findings and any corrective actions. (ii) replacement bags for the baghouse shall be kept on site with the minimum capability of at least a 20% bag change out. Record changed bag locations on baghouse tube map. The owner or operator shall inspect all ductwork for leaks and perform needed maintenance prior to operating during the asphalt production season. The owner or operator shall maintain annual records of baghouse and ductwork inspections. All of these records shall be maintained on site for at least two years after issuance of the permit and may be stored offsite (including electronic storage) afterwards for the life of the permit. Access to such offsite records must be made available in a timely manner if requested by the Department.									
Work Practice		Process Material			Reference Test Method				
Type	Code	Description							
Monitored Parameter					Manufacturer Name/Model No.				
Code	Description								
Limit			Limit Units						
Upper	Lower	Code	Description						
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
			09	annually		10	upon request by NYSDEC		

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	220	3	5		(b)			
☐ Applicable Federal Requirement ☐ State Only Requirement						☐ Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name				
V-0001	ST001	HMA	BA001-BU001	0NY075-00-0	PARTICULATES				
Monitoring Information									
☐ Continuous Emission Monitoring ☐ Monitoring of Process or Control Device Parameters as a Surrogate									
☒ Intermittent Emission Testing ☐ Work Practice Involving Specific Operations									
☐ Ambient Air Monitoring ☐ Record Keeping/Maintenance Procedures									
Description									
The owner or operator of any existing aggregate dryer must submit, at least thirty (30) calendar days prior to commencing an emission test, a test protocol to the department for review and approval. The owner or operator must submit a complete test report to the department no later than sixty (60) calendar days after completion of the on-site testing. Monitoring records stating the following information shall be maintained on site for at least two years after issuance of the permit and may be stored offsite (including electronic storage) afterwards for the life of the permit. Access to such offsite records must be made available in a timely manner if requested by the department.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
Monitored Parameter						Manufacturer Name/Model No.			
Code	Description								
Limit			Limit Units						
Upper	Lower	Code	Description						
0.03		391	grains per standard cubic foot						
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
08	1-hour average		17	once during the term of the permit		01	once/batch or monitoring occurrence		

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	220	3	5		(b)			
☐ Applicable Federal Requirement ☐ State Only Requirement						☐ Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name				
V-0001	ST001	HMA	BA001-BU001	0NY210-00-0	OXIDES OF NITROGEN				
Monitoring Information									
☐ Continuous Emission Monitoring ☐ Monitoring of Process or Control Device Parameters as a Surrogate									
☒ Intermittent Emission Testing ☐ Work Practice Involving Specific Operations									
☐ Ambient Air Monitoring ☐ Record Keeping/Maintenance Procedures									
Description									
The owner or operator of any existing aggregate dryer must submit, at least thirty (30) calendar days prior to commencing an emission test, a test protocol to the department for review and approval. The owner or operator must submit a complete test report to the department no later than sixty (60) calendar days after completion of the on-site testing. Monitoring records stating the following information shall be maintained on site for at least two years after issuance of the permit and may be stored offsite (including electronic storage) afterwards for the life of the permit. Access to such offsite records must be made available in a timely manner if requested by the department.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
Monitored Parameter						Manufacturer Name/Model No.			
Code	Description								
Limit			Limit Units						
Upper	Lower	Code	Description						
0.096		7	pounds per million BTUs						
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
08	1-hour average		17	once during the term of the permit		01	once/batch or monitoring occurrence		

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	220	3	8		(a)			
☐ Applicable Federal Requirement ☐ State Only Requirement						☐ Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name				
V-0001	ST001	HMA							
Monitoring Information									
☐ Continuous Emission Monitoring ☒ Monitoring of Process or Control Device Parameters as a Surrogate									
☐ Intermittent Emission Testing ☐ Work Practice Involving Specific Operations									
☐ Ambient Air Monitoring ☐ Record Keeping/Maintenance Procedures									
Description									
No facility owner or operator shall cause or allow emissions to exceed an average opacity of 20 percent or greater during any six consecutive minutes from any process emission source or emission point.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
Monitored Parameter						Manufacturer Name/Model No.			
Code	Description								
01	OPACITY								
Limit			Limit Units						
Upper	Lower	Code	Description						
20		136	percent						
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
44	6-minute average		09	annually		10	upon request by NYSDEC		

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Section IV - Emission Unit Information

Emission Unit Compliance Certification (continuation)									
Rule Citation									
Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
6	NYCRR	220	3	9		(c)			
☐ Applicable Federal Requirement ☐ State Only Requirement						☐ Capping			
Emission Unit	Emission Point	Process	Emission Source	CAS No.	Contaminant Name				
V-0001	ST001	HMA	BU001						
Monitoring Information									
☐ Continuous Emission Monitoring ☐ Monitoring of Process or Control Device Parameters as a Surrogate									
☐ Intermittent Emission Testing ☐ Work Practice Involving Specific Operations									
☐ Ambient Air Monitoring ☒ Record Keeping/Maintenance Procedures									
Description									
The owner or operator shall conduct a burner tuning procedure in accordance with the manufacturer's specifications to minimize NOx and carbon monoxide (CO) emissions each calendar year. The following information shall be monitored and recorded: (i) the date of the tuning procedure; (ii) the name of the servicing company/qualified internal staff/technician; (iii) the production rate (tons/hr) or load before and after tuning; (iv) the NOx and CO concentrations (ppmvd @ 3% O2) before and after tuning; and (v) the percent O2 before and after tuning. Records of this information shall be maintained on site for at least two years after issuance of the permit and may be stored offsite (including electronic storage) afterwards for the life of the permit. Access to such offsite records must be made available in a timely manner if requested by the Department.									
Work Practice		Process Material				Reference Test Method			
Type	Code	Description							
Monitored Parameter						Manufacturer Name/Model No.			
Code	Description								
Limit			Limit Units						
Upper	Lower	Code	Description						
Averaging Method			Monitoring Frequency			Reporting Requirements			
Code	Description		Code	Description		Code	Description		
			09	annually		10	upon request by NYSDEC		

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Request for Emission Reduction Credits Continuation Sheet(s)

Emission Source						
-----------------	--	--	--	--	--	--

Emission Reduction Description

--

Contaminant Emission Reduction Data

Baseline Period ____/____/____ to ____/____/____		Reduction	
		Date	Method
CAS Number	Contaminant Name	ERC (lbs/yr)	
		Netting	Offset

Facility to Use Future Reduction

Name		Application ID											
		-									/		
Location Address													
City/ Town / Village								State				Zip	

Use of Emission Reduction Credits Continuation Sheet(s)

Emission Source						
-----------------	--	--	--	--	--	--

Proposed Project Description

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Contaminant Emissions Increase Data

CAS Number	Contaminant Name	Project Emission Potential (lbs/yr)

Statement of Compliance

All facilities under the ownership of this "owner/firm" are operating in compliance with all applicable requirements and state regulations including any compliance certification requirements under Section 114(a)(3) of the Clean Air Act Amendments of 1990, or are meeting the schedule of a consent order.

Source of Emission Reduction Credit - Facility

Name		Permit ID											
		-									/		
Location Address													
City/ Town / Village								State				Zip	

Emission Source	CAS Number	Contaminant Name	ERC (lbs/yr)	
			Netting	Offset

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Supporting Documentation and Attachments	
Required Supporting Documentation	Date of Document
List of Exempt Activities (attach form)	
× Plot Plan	2/10/2026
× Process Flow Diagram	2/10/2026
× Methods Used to Determine Compliance (attach form)	2/10/2026
× Emissions Calculations	<u>3/18/2026 rev.1</u>
Optional Supporting Documentation	Date of Document
× Air Quality Model	2/10/2026
Confidentiality Justification	
Ambient Air Quality Monitoring Plan or Reports	
Stack Test Protocol	
Stack Test Report	
Continuous Emissions Monitoring Plan	
Lowest Achievable Emission Rate (LAER) Demonstration	
Best Available Control Technology (BACT) Demonstration	
Reasonably Available Control Technology (RACT) Demonstration	
Toxic Impact Assessment (TIA)	
Environmental Rating Demonstration	
Operational Flexibility Protocol/Description of Alternate Operating Scenarios	
Title IV Permit Application	
Emission Reduction Credit (ERC) Quantification (attach form)	
Baseline Period Demonstration	
Use of Emission Reduction Credits (attach form)	
Analysis of Contemporaneous Emissions Increase/Decrease	
Other Supporting Documentation	Date of Document
Abbreviated Public Participation Plan	2/10/2026
Full Environmental Assessment Form (FEAF)	2/12/2026

Appendix F
Emissions Calculations
rev.1 3.19.26



Table 0. Summary Table - Emission Calculation per Emission Unit/Source			
EMISSION UNIT	EMISSION SOURCE	TABLE	Notes
V-0001	BA001-BU001	1	PTE
		2	Actual
	TLOAD-SILOF	3 and 4	PTE
		5 and 6	Actual
		7 and 8	Speciated
1-ACTKS	TANK1-TANK2	9.1	Actual
		9.2	Tank Features
		9.3	Speciated
Exempt Sources	Hot Oil system	10	PTE
		11	Actual
	Space heaters	12.1 and 12.2	PTE/actual
Facility Wide Emissions		13	TOTAL

Table 1. Batch Mix Plant Emission Unit V-0001 - Emission Sources BA001 and BU001 - Potential Emissions -

Assumptions

Fuel:	Natural gas
Type of control:	Fabric filter
Activity rate (A) =	300 tons/hr
Activity rate (A) =	249,000 tpy (capping on plant)
PTE Hours of operations	8760 hrs/year

Table 1. Emissions Calculations

Reference for EF ^a	Pollutant	EF (lb/ton)	Emissions (tpy)	Emissions (lbs/yr)	ERP(lbs/hr)
Table 11.1-2	PM 2.5	0.0083	1.0334	2,066.70	0.235924658
Table 11.1-1	PM 10	0.027	3.3615	6,723.00	0.767465753
Table 11.1-5	CO	0.4	49.8000	99,600.00	11.36986301
Table 11.1-5	CO ₂	37	4,606.5000	9,213,000.00	1051.712329
Table 11.1-5	NOx	0.025	3.1125	6,225.00	0.710616438
Table 11.1-5	SO ₂	0.0046	0.5727	1,145.40	0.130753425
Table 11.1-6	TOC	0.015	1.8675	3,735.00	
Table 11.1-6	CH ₄	0.0074	0.9213	1,842.60	0.210342466
Table 11.1-6	VOC	0.0082	1.0209	2,041.80	0.233082192
Table 11.1-9	Benzene ^b	2.80E-04	0.0349	69.72	0.007958904
Table 11.1-9	Ethylbenzene ^b	2.20E-03	0.2739	547.80	0.062534247
Table 11.1-9	Formaldehyde ^b	7.40E-04	0.0921	184.26	0.021034247
Table 11.1-9	Quinone ^b	2.70E-04	0.0336	67.23	
Table 11.1-9	Toluene ^b	1.00E-03	0.1245	249.00	
Table 11.1-9	Xylene ^b	2.70E-03	0.3362	672.30	
Table 11.1-9	Total non-PAH HAPs	7.50E-03	0.9338	1,867.50	
Table 11.1-9	2-Methylnaphthalene ^c	7.10E-05	0.0088	17.68	
Table 11.1-9	Acenaphthene ^c	9.00E-07	0.0001	0.22	
Table 11.1-9	Acenaphthylene ^c	5.80E-07	0.0001	0.14	
Table 11.1-9	Anthracene ^c	2.10E-07	0.0000	0.05	
Table 11.1-9	Benzo(a)anthracene ^c	4.60E-09	0.0000	0.00	
Table 11.1-9	Benzo(a)pyrene ^c	3.10E-10	0.0000	0.00	
Table 11.1-9	Benzo(b)fluoranthene ^c	9.40E-09	0.0000	0.00	
Table 11.1-9	Benzo(g,h,i)perylene ^c	5.00E-10	0.0000	0.00	
Table 11.1-9	Benzo(k)fluoranthene ^c	1.30E-08	0.0000	0.00	
Table 11.1-9	Chrysene ^c	3.80E-09	0.0000	0.00	
Table 11.1-9	Dibenz(a,h)anthracene ^c	9.50E-11	0.0000	0.00	
Table 11.1-9	Fluoranthene ^c	1.60E-07	0.0000	0.04	
Table 11.1-9	Fluorene ^c	1.60E-06	0.0002	0.40	
Table 11.1-9	Indeno(1,2,3-cd)pyrene ^c	3.00E-10	0.0000	0.00	
Table 11.1-9	Naphthalene	3.60E-05	0.0045	8.96	
Table 11.1-9	Phenanthrene ^c	2.60E-06	0.0003	0.65	
Table 11.1-9	Pyrene ^c	6.20E-08	0.0000	0.02	
Table 11.1-9	Total PAH HAPs	1.10E-04	0.0137	27.39	
Table 11.1-9	Benzaldehyde	1.30E-04	0.0162	32.37	
Table 11.1-9	Butyraldehyde/isobutyraldehyde	3.00E-05	0.0037	7.47	
Table 11.1-9	Crotonaldehyde	2.90E-05	0.0036	7.22	
Table 11.1-9	Hexanal	2.40E-05	0.0030	5.98	
Table 11.1-9	Total non-HAPs	1.90E-04	0.0237	47.31	
Table 11.1-11	Arsenic ^b	4.60E-07	0.0001	0.11	
Table 11.1-11	Barium	1.50E-06	0.0002	0.37	
Table 11.1-11	Beryllium ^b	1.50E-07	0.0000	0.04	
Table 11.1-11	Cadmium ^b	6.10E-07	0.0001	0.15	
Table 11.1-11	Chromium ^b	5.70E-07	0.0001	0.14	
Table 11.1-11	Hexavalent chromium ^b	4.80E-08	0.0000	0.01	
Table 11.1-11	Copper	2.80E-06	0.0003	0.70	
Table 11.1-11	Lead ^b	8.90E-07	0.0001	0.22	
Table 11.1-11	Manganese ^b	6.90E-06	0.0009	1.72	
Table 11.1-11	Mercury ^b	4.10E-07	0.0001	0.10	
Table 11.1-11	Nickel ^b	3.00E-06	0.0004	0.75	
Table 11.1-11	Selenium ^b	4.90E-07	0.0001	0.12	
Table 11.1-11	Zinc	6.80E-06	0.0008	1.69	

a: from USEPA AP-42 Chapter 11.1

b: Hazardous air pollutants (HAP) as defined in the 1990 Clean Air Act Amendments (CAAA).

c: Compound is classified as polycyclic organic matter, as defined in the 1990 CAAA

Table 2. Batch Mix Plant Emission Unit V-0001 - Emission Sources BA001 and BU001- Actual Emissions

Assumptions

Fuel:	Natural gas
Type of control:	Fabric filter
Activity rate (A) =	130 tons/hr
Activity rate (A) =	207,840 tpy
Actual hour of operation	1599 hrs/year)

Table 2. Emissions Calculations

Reference for EF ^a	Pollutant	EF (lb/ton)	Emissions (tpy)	Emissions (lbs/yr)	Max Emissions (lbs/hr)
Table 11.1-2	PM 2.5	0.0083	0.8625	1,725.07	1.079
Table 11.1-1	PM 10	0.027	2.8058	5,611.68	3.51
Table 11.1-5	CO	0.4	41.5680	83,136.00	52
Table 11.1-5	CO ₂	37	3,845.0400	7,690,080.00	4810
Table 11.1-5	NOx	0.025	2.5980	5,196.00	3.25
Table 11.1-5	SO ₂	0.0046	0.4780	956.06	0.598
Table 11.1-6	TOC	0.015	1.5588	3,117.60	
Table 11.1-6	CH ₄	0.0074	0.7690	1,538.02	0.962
Table 11.1-6	VOC	0.0082	0.8521	1,704.29	1.066
Table 11.1-9	Benzene ^b	2.80E-04	0.0291	58.20	0.0364
Table 11.1-9	Ethylbenzene ^b	2.20E-03	0.2286	457.25	0.286
Table 11.1-9	Formaldehyde ^b	7.40E-04	0.0769	153.80	0.0962
Table 11.1-9	Quinone ^b	2.70E-04	0.0281	56.12	
Table 11.1-9	Toluene ^b	1.00E-03	0.1039	207.84	
Table 11.1-9	Xylene ^b	2.70E-03	0.2806	561.17	
Table 11.1-9	Total non-PAH HAPs	7.50E-03	0.7794	1,558.80	
Table 11.1-9	2-Methylnaphthalene ^c	7.10E-05	0.0074	14.76	
Table 11.1-9	Acenaphthene ^c	9.00E-07	0.0001	0.19	
Table 11.1-9	Acenaphthylene ^c	5.80E-07	0.0001	0.12	
Table 11.1-9	Anthracene ^c	2.10E-07	0.0000	0.04	
Table 11.1-9	Benzo(a)anthracene ^c	4.60E-09	0.0000	0.00	
Table 11.1-9	Benzo(a)pyrene ^c	3.10E-10	0.0000	0.00	
Table 11.1-9	Benzo(b)fluoranthene ^c	9.40E-09	0.0000	0.00	
Table 11.1-9	Benzo(g,h,i)perylene ^c	5.00E-10	0.0000	0.00	
Table 11.1-9	Benzo(k)fluoranthene ^c	1.30E-08	0.0000	0.00	
Table 11.1-9	Chrysene ^c	3.80E-09	0.0000	0.00	
Table 11.1-9	Dibenz(a,h)anthracene ^c	9.50E-11	0.0000	0.00	
Table 11.1-9	Fluoranthene ^c	1.60E-07	0.0000	0.03	
Table 11.1-9	Fluorene ^c	1.60E-06	0.0002	0.33	
Table 11.1-9	Indeno(1,2,3-cd)pyrene ^c	3.00E-10	0.0000	0.00	
Table 11.1-9	Naphthalene	3.60E-05	0.0037	7.48	
Table 11.1-9	Phenanthrene ^c	2.60E-06	0.0003	0.54	
Table 11.1-9	Pyrene ^c	6.20E-08	0.0000	0.01	
Table 11.1-9	Total PAH HAPs	1.10E-04	0.0114	22.86	
Table 11.1-9	Benzaldehyde	1.30E-04	0.0135	27.02	
Table 11.1-9	Butyraldehyde/isobutyraldehyde	3.00E-05	0.0031	6.24	
Table 11.1-9	Crotonaldehyde	2.90E-05	0.0030	6.03	
Table 11.1-9	Hexanal	2.40E-05	0.0025	4.99	
Table 11.1-9	Total non-HAPs	1.90E-04	0.0197	39.49	
Table 11.1-11	Arsenic ^b	4.60E-07	0.0000	0.10	
Table 11.1-11	Barium	1.50E-06	0.0002	0.31	
Table 11.1-11	Beryllium ^b	1.50E-07	0.0000	0.03	
Table 11.1-11	Cadmium ^b	6.10E-07	0.0001	0.13	
Table 11.1-11	Chromium ^b	5.70E-07	0.0001	0.12	
Table 11.1-11	Hexavalent chromium ^b	4.80E-08	0.0000	0.01	
Table 11.1-11	Copper	2.80E-06	0.0003	0.58	
Table 11.1-11	Lead ^b	8.90E-07	0.0001	0.18	
Table 11.1-11	Manganese ^b	6.90E-06	0.0007	1.43	
Table 11.1-11	Mercury ^b	4.10E-07	0.0000	0.09	
Table 11.1-11	Nickel ^b	3.00E-06	0.0003	0.62	
Table 11.1-11	Selenium ^b	4.90E-07	0.0001	0.10	
Table 11.1-11	Zinc	6.80E-06	0.0007	1.41	

a: from USEPA AP-42 Chapter 11.1

b: Hazardous air pollutants (HAP) as defined in the 1990 Clean Air Act Amendments (CAAA).

c: Compound is classified as polycyclic organic matter, as defined in the 1990 CAAA

Tables 3-4. Batch Mix Plant Emission Unit V-0001 - Emission Sources TLOAD and SILOF - Potential Emissions -
Reference - USEPA AP-42 Chapter 11.1 - Tables 11.1-14 **rev.1 3.19.26 (entire spreadsheet)**

INPUT DATA

<i>production (P)</i> =	249,000	tpy (production)
<i>volatility (V)</i> =	-0.50	
<i>Temperature (T)</i> =	310	° F

EF CALCULATIONS - AP-42 Table 11.1-14 - LOAD OUT		
CO - EF = $0.00558(-V)e((0.0251)(T + 460) - 20.43)$	=	0.000925928
TOC - EF = $0.0172(-V)e((0.0251)(T + 460) - 20.43)$	=	0.002854116
Organic PM - EF = $0.00141(-V)e((0.0251)(T + 460) - 20.43)$	=	0.000233971
Total PM - EF = $0.000181 + 0.00141(-V)e((0.0251)(T + 460) - 20.43)$	=	0.000414971

EF CALCULATIONS - AP-42 Table 11.1-14 - SILO FILLING		
CO - EF = $0.00488(-V)e((0.0251)(T + 460) - 20.43)$	=	0.000809772
TOC - EF = $0.0504(-V)e((0.0251)(T + 460) - 20.43)$	=	0.008363224
Organic PM - EF = $0.00105(-V)e((0.0251)(T + 460) - 20.43)$	=	0.000174234
Total PM - EF = $0.000332 + 0.00105(-V)e((0.0251)(T + 460) - 20.43)$	=	0.000506234

Table 3. Emissions Calculations from Loadout

<i>Pollutant</i>	<i>EF (lb/ton)</i>	<i>Emissions (lbs/yr)</i>	<i>Emissions (tpy)</i>	<i>Emissions (lb/hr)</i>
CO (emission calculations) = EF x production (tpy)	0.000926	<u>230.56</u>	<u>0.12</u>	<u>0.026</u>
TOC (emission calculations) = EF x production (tpy)	0.002854	<u>710.67</u>	<u>0.36</u>	<u>0.081</u>
Organic PM (emission calculations) = EF x production (tpy)	0.000234	<u>58.26</u>	<u>0.03</u>	<u>0.007</u>
Total PM (emission calculations) = EF x production (tpy)	0.000415	<u>103.33</u>	<u>0.05</u>	<u>0.012</u>

Table 4. Emissions Calculations silo filling

<i>Pollutant</i>	<i>EF (lb/ton)</i>	<i>Emissions (lbs/yr)</i>	<i>Emissions (tpy)</i>	<i>Emissions (lb/hr)</i>
CO (emission calculations) = EF x production (tpy)	0.000810	<u>201.63</u>	<u>0.10</u>	<u>0.023</u>
TOC (emission calculations) = EF x production (tpy)	0.008363	<u>2082.44</u>	<u>1.04</u>	<u>0.24</u>
Organic PM (emission calculations) = EF x production (tpy)	0.000174	<u>43.38</u>	<u>0.02</u>	<u>0.005</u>
Total PM (emission calculations) = EF x production (tpy)	0.000506	<u>126.05</u>	<u>0.06</u>	<u>0.014</u>

NOTE: Calculated Emissions are for 1 loadout and 1 silo. Facility has 2 loadouts and 2 silos. Values will be multiplied by 2 in Table 13
- Facility Wide Emissions

Tables 5-6. Batch Mix Plant Emission Unit V-0001 - Emission Sources TLOAD and SILOF - Actual Emissions -
Reference - USEPA AP-42 Chapter 11.1 - Tables 11.1-14 **rev.1 3.19.26 (entire spreadsheet)**

INPUT DATA

<i>production (P) =</i>	207,840	tpy (production)
<i>volatility (V) =</i>	-0.50	
<i>Temperature (T) =</i>	310	° F

EF CALCULATIONS - AP-42 Table 11.1-14 - LOAD OUT		
CO - EF = 0.00558(-V)e((0.0251)(T + 460) - 20.43)	=	0.000925928
TOC - EF = 0.0172(-V)e((0.0251)(T + 460) - 20.43)	=	0.002854116
Organic PM - EF = 0.00141(-V)e((0.0251)(T + 460) - 20.43)	=	0.000233971
Total PM - EF = 0.000181 + 0.00141(-V)e((0.0251)(T + 460) - 20.43)	=	0.000414971

EF CALCULATIONS - AP-42 Table 11.1-14 - SILO FILLING		
CO - EF = 0.00488(-V)e((0.0251)(T + 460) - 20.43)	=	0.000809772
TOC - EF = 0.0504(-V)e((0.0251)(T + 460) - 20.43)	=	0.008363224
Organic PM - EF = 0.00105(-V)e((0.0251)(T + 460) - 20.43)	=	0.000174234
Total PM - EF = 0.000332 + 0.00105(-V)e((0.0251)(T + 460) - 20.43)	=	0.000506234

Table 5. Emissions Calculations from Loadout

<i>Pollutant</i>	<i>EF (lb/ton)</i>	<i>Emissions (lbs/yr)</i>	<i>Emissions (tpy)</i>	<i>Emissions (lbs/hr)</i>
CO (emission calculations) = EF x production (tpy)	0.000926	<u>192.44</u>	<u>0.10</u>	<u>0.1204</u>
TOC (emission calculations) = EF x production (tpy)	0.002854	<u>593.20</u>	<u>0.30</u>	<u>0.371</u>
Organic PM (emission calculations) = EF x production (tpy)	0.000234	<u>48.63</u>	<u>0.02</u>	<u>0.030</u>
Total PM (emission calculations) = EF x production (tpy)	0.000415	<u>86.25</u>	<u>0.04</u>	<u>0.054</u>

Table 6. Emissions Calculations silo filling

<i>Pollutant</i>	<i>EF (lb/ton)</i>	<i>Emissions (lbs/yr)</i>	<i>Emissions (tpy)</i>	<i>Emissions (lbs/hr)</i>
CO (emission calculations) = EF x production (tpy)	0.000810	<u>168.30</u>	<u>0.08</u>	<u>0.1204</u>
TOC (emission calculations) = EF x production (tpy)	0.008363	<u>1738.21</u>	<u>0.87</u>	<u>0.3710</u>
Organic PM (emission calculations) = EF x production (tpy)	0.000174	<u>36.21</u>	<u>0.02</u>	<u>0.0304</u>
Total PM (emission calculations) = EF x production (tpy)	0.000506	<u>105.22</u>	<u>0.05</u>	<u>0.0539</u>

NOTE: Calculated Emissions are for 1 loadout and 1 silo. Facility has 2 loadouts and 2 silos. Values will be multiplied by 2 in Table 13
- Facility Wide Emissions

Table 7. SPECIATION PROFILES FOR LOAD-OUT, SILO FILLING, EMISSIONS—ORGANIC PARTICULATE-BASED COMPOUNDS
Emission Unit V-0001 - Emission Sources TLOAD and SILOF - Source Reference - USEPA AP-42 Chapter 11.1 - Tables 11.1-15

rev.1 3.19.26 (entire spreadsheet)

Pollutant	CASRN ^a	Speciation Profile for Load-out and Yard Emissions ^b	Speciation Profile for Silo Filling Emissions	LOAD OUT Emission Calculation = PAH % x Org. PM emission (see Tables 3 - 5)		SILO FILLING Emission Calculation = PAH % x Org. PM emission (see Tables 4 and 6)	
		Compound/Organic PM ^c	Compound/Organic	PTE lbs/yr	Actual lbs/yr	PTE lbs/yr	Actual lbs/yr
<u>PAH HAPs</u>							
Acenaphthene	83-32-9	0.26%	0.47%	0.1515	0.1264	0.204	0.1702
Acenaphthylene	208-96-8	0.028%	0.014%	0.0163	0.0136	0.006	0.0051
Anthracene	120-1207	0.070%	0.13%	0.0408	0.0340	0.056	0.0471
Benzo(a)anthracene	56-55-3	0.019%	0.056%	0.0111	0.0092	0.024	0.0203
Benzo(b)fluoranthene	205-99-2	0.0076%	ND ^d	0.0044	0.0037	ND	ND
Benzo(k)fluoranthene	207-08-9	0.0022%	ND ^d	0.0013	0.0011	ND	ND
Benzo(g,h,i)perylene	191-24-2	0.0019%	ND ^d	0.0011	0.0009	ND	ND
Benzo(a)pyrene	50-32-8	0.0023%	ND ^d	0.0013	0.0011	ND	ND
Benzo(e)pyrene	192-97-2	0.0078%	0.0095%	0.0045	0.0038	0.004	0.0034
Chrysene	218-01-9	0.103%	0.21%	0.0600	0.0501	0.091	0.0760
Dibenz(a,h)anthracene	53-70-3	0.00037%	ND ^d	0.0002	0.0002	ND	ND
Fluoranthene	206-44-0	0.050%	0.15%	0.0291	0.0243	0.065	0.0543
Fluorene	86-73-7	0.77%	1.01%	0.4486	0.3744	0.438	0.3657
Indeno(1,2,3-cd)pyrene	193-39-5	0.00047%	ND ^d	0.0003	0.0002	ND	ND
2-Methylnaphthalene	91-57-6	2.38%	5.27%	1.3866	1.1574	2.286	1.9084
Naphthalene	91-20-3	1.25%	1.82%	0.7282	0.6079	0.790	0.6591
Perylene	198-55-0	0.022%	0.030%	0.0128	0.0107	0.013	0.0109
Phenanthrene	85-01-8	0.81%	1.80%	0.4719	0.3939	0.781	0.6518
Pyrene	129-00-0	0.15%	0.44%	0.0874	0.0729	0.191	0.1593
Total PAH HAPs		5.93%	11.40%	3.4547	2.8837	4.946	4.1283
<u>Other semi-volatile HAPs</u>							
Phenol		1.18%	ND ^d	0.6875	0.5738	ND	ND

^a Chemical Abstract Service Registry Number.

^b Emissions from loaded trucks during the period between load-out and the time the truck departs the plant.

^c Emission factor for compound is determined by multiplying the percentage presented for the compound by the emission factor for extractable organic particulate (organic PM) as determined from Table 11.1-14.

^d ND = Measured data below detection limits.

Table 8. SPECIATION PROFILES FOR LOAD-OUT, SILO FILLING, EMISSIONS—ORGANIC PARTICULATE-BASED COMPOUNDS

rev.1 3.19.26 (entire spreadsheet)

Emission Unit V-0001 - Emission Sources TLOAD and SILOF - Source Reference - USEPA AP-42 Chapter 11.1 - Tables 11.1-16

Pollutant	CASRN	Speciation Profile for Load-Out and Yard Emissions	Speciation Profile for Silo Filling Emissions	LOAD OUT Emission Calculation = PAH % x TOC emission (see Tables 1 - 3)		SILO FILLING Emission Calculation = PAH % x TOC emission (see Tables 2 and 4)	
		Compound/TOC ^a	Compound/TOC (%) ^a	PTE lbs/yr	Actual lbs/yr	PTE lbs/yr	Actual lbs/yr
VOC ^b		94% ^b	100%	668.03	557.61	2082.44	1738.21
Non-VOC/non-HAPs							
Methane	74-82-8	6.5%	0.26%	46.19	38.56	5.41	4.52
Acetone	67-64-1	0.046%	0.055%	0.33	0.27	1.15	0.96
Ethylene	74-85-1	0.71%	1.1%	5.05	4.21	22.91	19.12
Total non-VOC/non-HAPS		7.3%	1.4%	51.88	43.30	29.15	24.33
Volatile organic HAPS							
Benzene	71-43-2	0.052%	0.032%	0.37	0.31	0.67	0.56
Bromomethane	74-83-9	0.0096%	0.0049%	0.07	0.06	0.10	0.09
2-Butanone	78-93-3	0.049%	0.039%	0.35	0.29	0.81	0.68
Carbon Disulfide	75-15-0	0.013%	0.016%	0.09	0.08	0.33	0.28
Chloroethane	75-00-3	0.00021%	0.0040%	0.00	0.00	0.08	0.07
Chloromethane	74-87-3	0.015%	0.023%	0.11	0.09	0.48	0.40
Cumene	92-82-8	0.11%	ND ^c	0.78	0.65	ND	ND
Ethylbenzene	100-41-4	0.28%	0.038%	1.99	1.66	0.79	0.66
Formaldehyde	50-00-0	0.088%	0.69%	0.63	0.52	14.37	11.99
n-Hexane	100-54-3	0.15%	0.10%	1.07	0.89	2.08	1.74
Isooctane	540-84-1	0.0018%	0.00031%	0.01	0.01	0.01	0.01
Methylene Chloride	75-09-2	0.00% ^d	0.00027%	0.00	0.00	0.01	0.00
MTBE	596899	0.00% ^d	ND ^c	0.00	0.00	ND	ND
Styrene	100-42-5	0.0073%	0.0054%	0.05	0.04	0.11	0.09
Tetrachloroethene	127-18-4	0.0077%	ND ^c	0.05	0.05	ND	ND
Toluene	100-88-3	0.21%	0.062%	1.49	1.25	1.29	1.08
1,1,1-Trichloroethane	71-55-6	0.00% ^d	ND ^c	0.00	0.00	ND	ND
Trichloroethene	79-01-6	0.00% ^d	ND ^c	0.00	0.00	ND	ND
Trichlorofluoromethane	75-69-4	0.0013%	ND ^c	0.01	0.01	ND	ND
m-/p-Xylene	1330-20-7	0.41%	0.2%	2.91	2.43	4.16	3.48
o-Xylene	95-47-6	0.08%	0.057%	0.57	0.47	1.19	0.99
Total volatile organic HAPs		1.5%	1.3%	10.66	8.90	27.07	22.60

a Emission factor for compound is determined by multiplying the percentage presented for the compound by the emission factor for total organic compounds (TOC) as determined from Table 11.1-14

b The VOC percentages are equal to 100 percent of TOC minus the methane, acetone, methylene chloride, and 1,1,1-trichloroethane percentages.

c ND = Measured data below detection limits. Additional compounds that were not detected are: acrylonitrile, allyl chloride, bromodichloromethane, bromoform, 1,3-butadiene, carbon tetrachloride, chlorobenzene, chloroform, dibromochloromethane, 1,2-dibromoethane, 1,1-dichloroethane, 1,2-dichloroethane, 1,1-dichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, 1,2-dichloropropane, cis-1,3-dichloropropane, trans-1,3-dichloropropane, 1,2-epoxybutane, ethyl acrylate, 2-hexanone, iodomethane, methyl methacrylate, 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, vinyl acetate, vinyl bromide, and vinyl chloride

d Values presented as 0.0% had background concentrations higher than the capture efficiency-corrected measured concentration.

Table 9.1 Asphalt Cement - Emission Unit 1-ACTKS- Actual Emissions* rev.1 3.19.26

Tank ID	Tank Type	Description
01	Vertical Fixed Roof Tank (see Table 9.2 below for detail)	tank storing asphalt cement
Company	Meteorological Location	Chemical Name
Broome Bituminous Product	Binghamton, NY	No. 6 Fuel Oil (as surrogate for asphalt)
Annual Working Losses (lb/yr)	Annual Total Emission (lb/yr) per tank	Hourly Emissions (lb/hr.) per tank **
116.99	<u>351.00</u>	<u>0.220</u>

* data calculated using the USEPA Tank 5.2 software with input data from Table 9.2 below

** divided by estimated operating hours = 1,600 hr/yr.

Table 9.2 - AC Tank detail (used in the USEPA 5.1 software)

Shell Height (ft):	46
Shell Diameter (ft):	12.175
Maximum Liquid Height (ft):	44
Average Liquid Height (ft):	40
Tank Bottom Type:	Flat or nominally flat bottom
Liquid Heel Type at Tank Minimum:	full liquid
if full liquid minimum liquid heel height (ft)	1
Vapor Space Pressure at Normal Operating Conditions (psig):	4
Is Tank Insulated?	fully insulated
Is Tank Heated?: (if yes see below)	YES
Typical Maximum Liquid Bulk Temperature in Heating Cycle (F):	<u>300 (760 R)</u>
Typical Average Liquid Bulk Temperature in Heating Cycle (F):	<u>300 (760 R)</u>
Typical Minimum Liquid Bulk Temperature in Heating Cycle (F)	<u>300 (760 R)</u>
Number of Heating Cycles per Year	<u>1 (tanks stay heated from April to November)*</u>
Shell Color/Shade:	aluminum - specular (highly polished)
Shell Condition:	good
Roof Color/Shade	gray- light
Roof Condition:	good
Roof Type:	flat
Vacuum Setting (psig)	-0.03
Pressure Setting (psig):	0.03
Is Tank Equipped with a Control Device?:	YES
if yes - Control Device Efficiency (%):	<u>70%</u>
Annual Throughput (gal/yr):	2,701,920**

* in the emission calculations we assumed 4 cycles/day x 182 days/year = 728 heating cycles/year

** Calculated multiplying 207,840 ton/yr. of HMA production x 13 gall/ton (standard volume of asphalt cement used per ton.)

Table 9.3. SPECIATION PROFILES FOR ASPHALT STORAGE EMISSIONS: Emission Unit 1-ACTKS**–ORGANIC VOLATILE-BASED COMPOUNDS - EMISSION FACTOR RATING: C****Source Reference : USEPA AP-42 Chapter 11.1 - Tables 11.1-16 rev.1 3.19.26 (entire spreadsheet)**

Pollutant	CASRN	Speciation Profile for Asphalt Storage Tank Emissions	AC Tank Storage Emission Calculation = PAH % x TOC emission (see Tables 3.1 and 3.2)		AC Tank Storage Emission Calculation for 2 AC Tanks	
		Compound/ TOC (%) ^a	Actual lbs/yr	Actual lbs/hr*	Actual lbs/yr	Actual lbs/hr*
VOC ^b		100%	351.00	0.220	702.00	0.439
<u>Non-VOC/non-HAPs</u>						
Methane	74-82-8	0.26%	0.91	5.707E-04	1.83	1.141E-03
Acetone	67-64-1	0.055%	0.19	1.207E-04	0.39	2.415E-04
Ethylene	74-85-1	1.1%	3.86	2.415E-03	7.72	4.829E-03
Total non-VOC/non-HAPS		1.4%	4.91	3.073E-03	9.83	6.146E-03
<u>Volatile organic HAPS</u>						
Benzene	71-43-2	0.032%	0.11	7.024E-05	0.22	1.405E-04
Bromomethane	74-83-9	0.0049%	0.02	1.076E-05	0.03	2.151E-05
2-Butanone	78-93-3	0.039%	0.14	8.561E-05	0.27	1.712E-04
Carbon Disulfide	75-15-0	0.016%	0.06	3.512E-05	0.11	7.024E-05
Chloroethane	75-00-3	0.0040%	0.01	8.780E-06	0.03	1.756E-05
Chloromethane	74-87-3	0.023%	0.08	5.049E-05	0.16	1.010E-04
Cumene	92-82-8	ND ^c	ND	ND	ND	ND
Ethylbenzene	100-41-4	0.038%	0.13	8.341E-05	0.27	1.668E-04
Formaldehyde	50-00-0	0.69%	2.42	1.515E-03	4.84	3.029E-03
n-Hexane	100-54-3	0.10%	0.35	2.195E-04	0.70	4.390E-04
Isooctane	540-84-1	0.00031%	0.00	6.805E-07	0.00	1.361E-06
Methylene Chloride	75-09-2	0.00027%	0.00	5.927E-07	0.00	1.185E-06
MTBE	596899	ND ^c	ND	ND	ND	ND
Styrene	100-42-5	0.0054%	0.02	1.185E-05	0.04	2.371E-05
Tetrachloroethene	127-18-4	ND ^c	ND	ND	ND	ND
Toluene	100-88-3	0.062%	0.22	1.361E-04	0.44	2.722E-04
1,1,1-Trichloroethane	71-55-6	ND ^c	ND	ND	ND	ND
Trichloroethene	79-01-6	ND ^c	ND	ND	ND	ND
Trichlorofluoromethane	75-69-4	ND ^c	ND	ND	ND	ND
m-/p-Xylene	1330-20-7	0.2%	0.70	4.390E-04	1.40	8.780E-04
o-Xylene	95-47-6	0.057%	0.20	1.251E-04	0.40	2.502E-04
Total volatile organic HAPs		1.3%	4.56	2.854E-03	9.13	5.707E-03

* divided by estimated operating hours = 1,600 hr/yr.

a Emission factor for compound is determined by multiplying the percentage presented for the compound by the emission factor for total organic compounds (TOC) as determined from Table 11.1-14

c ND = Measured data below detection limits. Additional compounds that were not detected are: acrylonitrile, allyl chloride, bromodichloromethane, bromoform, 1,3-butadiene, carbon tetrachloride, chlorobenzene, chloroform, dibromochloromethane, 1,2-dibromoethane, 1,1-dichloroethane, 1,2-dichloroethane, 1,1-dichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, 1,2-dichloropropane, cis-1,3-dichloropropene, trans-1,3-dichloropropene, 1,2-epoxybutane, ethyl acrylate, 2-hexanone, iodomethane, methyl methacrylate, 1,1,2,2-tetrachloroethane, 1,1,2-trichloroethane, vinyl acetate, vinyl bromide, and vinyl chloride

Table 10 Hot Oil System- Potential Emissions (exempt source)

Assumptions

Fuel:	natural gas		BURNER DATA		
Type of control:	none		heat input of burner	2.1	MMBTU/hr
			heat content in NG	1,020	BTU/cf
PTE cf of NG consumed	18,035,294		PTE Hours	8,760	hr/yr.
			PTE Consumption	18,035,294	cf/yr
PTE Hours of operation/yr.	8760				

Table 1. Emissions Calculations

Reference for EF ^c	Pollutant	EF (lb/ft ³)	Emissions (tpy)	Emissions (lbs/yr)	Max Emissions (lbs/hr)
Table 11.1-13	Carbon monoxide	8.9E-06	0.0803	160.51	0.018323529
Table 11.1-13	Carbon dioxide	0.20	1,803.5294	3,607,058.82	411.7647059
Table 11.1-13	Formaldehyde	2.6E-08	0.0002	0.47	5.35294E-05

a: Emission factor units are lb/cf of natural gas consumed

b: from USEPA AP-42 Chapter 11.1

Table 11 Hot Oil System- Actual Emissions (exempt source)**Assumptions**

Fuel:	natural gas		BURNER DATA		
Type of control:	none		heat input of burner	2.1	MMBTU/hr
			heat content in NG	1,020	BTU/cf
Actual cf of NG consumed	835,882		Actual Hours	406	hr/yr.
			Actual Consumption	835,882	cf/yr
Actual Hours of operation	406				

Table 1. Emissions Calculations

Reference for EF ^c	Pollutant	EF (lb/ft ³)	Emissions (tpy)	Emissions (lbs/yr)	Max Emissions (lbs/hr)
Table 11.1-13	Carbon monoxide	8.9E-06	0.0037	7.44	0.018323529
Table 11.1-13	Carbon dioxide	0.20	83.5882	167,176.47	411.7647059
Table 11.1-13	Formaldehyde	2.6E-08	1.0866E-05	0.02	5.35294E-05

a: Emission factor units are lb/cf of natural gas consumed

b: from USEPA AP-42 Chapter 11.1

Table #12.1 - EMISSIONS FROM COMBUSTION SOURCES - RESIDENTIAL FURNACE BOILERS (< 0.3 MMBTU/HR) - 0.125 MMBTU/hr NATURAL GAS HEATER									
CAS NUMBER	CONTAMINANT ⁽¹⁰⁾	HAP ⁽¹⁾	EMISSION FACTOR ⁽²⁾ , LB/MM SCF	NATURAL GAS USAGE MM SCF/YEAR		POTENTIAL TO EMIT ⁽⁵⁾ , LBS/YEAR	POTENTIAL TO EMIT ⁽⁶⁾ , TONS/YEAR	ACTUAL EMISSIONS ⁽⁷⁾ , LBS/YEAR	ACTUAL EMISSIONS ⁽⁸⁾ , TONS/YEAR
				PTE ⁽³⁾	ACT ⁽⁴⁾				
ONY210-00-0	Nitrogen Oxides		94	1.07	0.20	101	0.05	18	0.01
000630-08-0	Carbon Monoxide		40	1.07	0.20	43	0.02	8	0.00
ONY750-00-0	Carbon Dioxide		120,000	1.07	0.20	128,400	64	23,452	12
007439-92-1	Lead		0.0005	1.07	0.20	5.35E-04	2.68E-07	9.77E-05	4.89E-08
10024-97-2	Nitrous Oxide (uncontrolled)		2.2	1.07	0.20	2	1.18E-03	0	2.15E-04
ONY075-00-0	Particulates (PM-10)		7.6	1.07	0.20	8	4.07E-03	1	7.43E-04
007446-09-5	Sulfur Dioxide		0.6	1.07	0.20	1	3.21E-04	0	5.86E-05
7440-44-0	Total Organic Carbon (TOC)		11	1.07	0.20	12	5.89E-03	2	1.07E-03
74-82-8	Methane		2.3	1.07	0.20	2	1.23E-03	0	2.25E-04
ONY998-00-0	VOC		5.5	1.07	0.20	6	2.94E-03	1	5.37E-04
<u>91-57-6</u>	2-Methylnaphthalene	X	2.4E-05	1.07	0.20	3.E-05	1.28E-08	5.E-06	2.35E-09
<u>56-49-5</u>	3-Methylcholanthrene	X	1.80E-06	1.07	0.20	2.E-06	9.63E-10	4.E-07	1.76E-10
<u>57-97-6</u>	7,12-Dimethylbenz(a)anthracene	X	1.60E-05	1.07	0.20	2.E-05	8.56E-09	3.E-06	1.56E-09
<u>83-32-9</u>	Acenaphthene	X	1.80E-06	1.07	0.20	2.E-06	9.63E-10	4.E-07	1.76E-10
<u>203-96-8</u>	Acenaphthylene	X	1.80E-06	1.07	0.20	2.E-06	9.63E-10	4.E-07	1.76E-10
<u>120-12-7</u>	Anthracene	X	2.40E-06	1.07	0.20	3.E-06	1.28E-09	5.E-07	2.35E-10
<u>56-55-3</u>	Benz(a)anthracene	X	1.80E-06	1.07	0.20	2.E-06	9.63E-10	4.E-07	1.76E-10
71-43-2	Benzene	X	2.1E-03	1.07	0.20	2.E-03	1.12E-06	4.E-04	2.05E-07
<u>50-32-8</u>	Benzo(a)pyrene	X	1.20E-06	1.07	0.20	1.E-06	6.42E-10	2.E-07	1.17E-10
<u>205-99-2</u>	Benzo(b)fluoranthene	X	1.80E-06	1.07	0.20	2.E-06	9.63E-10	4.E-07	1.76E-10
<u>191-24-2</u>	Benzo(g,h,i)perylene	X	1.20E-06	1.07	0.20	1.E-06	6.42E-10	2.E-07	1.17E-10
<u>207-08-9</u>	Benzo(k)fluoranthene	X	1.80E-06	1.07	0.20	2.E-06	9.63E-10	4.E-07	1.76E-10
106-97-8	Butane		2.1E+00	1.07	0.20	2.E+00	1.12E-03	4.E-01	2.05E-04
<u>218-01-9</u>	Chrysene	X	1.80E-06	1.07	0.20	2.E-06	9.63E-10	4.E-07	1.76E-10
<u>53-70-3</u>	Dibenzo(a,h)anthracene	X	1.20E-06	1.07	0.20	1.E-06	6.42E-10	2.E-07	1.17E-10
<u>25321-22-6</u>	Dichlorobenzene	X	1.2E-03	1.07	0.20	1.E-03	6.42E-07	2.E-04	1.17E-07
74-84-0	Ethane		3.1E+00	1.07	0.20	3.E+00	1.66E-03	6.E-01	3.03E-04
<u>206-44-0</u>	Fluoranthene	X	3.0E-06	1.07	0.20	3.E-06	1.61E-09	6.E-07	2.93E-10
<u>86-73-7</u>	Fluorene	X	2.8E-06	1.07	0.20	3.E-06	1.50E-09	5.E-07	2.74E-10
50-00-0	Formaldehyde	X	7.5E-02	1.07	0.20	8.E-02	4.01E-05	1.E-02	7.33E-06
110-54-3	Hexane	X	1.8E+00	1.07	0.20	2.E+00	9.63E-04	4.E-01	1.76E-04
<u>193-39-5</u>	Indo(1,2,3-cd)pyrene	X	1.80E-06	1.07	0.20	2.E-06	9.63E-10	4.E-07	1.76E-10
91-20-3	Naphthalene	X	6.1E-04	1.07	0.20	7.E-04	3.26E-07	1.E-04	5.96E-08
109-66-0	Pentane		2.6E+00	1.07	0.20	3.E+00	1.39E-03	5.E-01	2.54E-04
<u>85-01-8</u>	Phenanathrene	X	1.7E-05	1.07	0.20	2.E-05	9.10E-09	3.E-06	1.66E-09
74-98-6	Propane		1.6E+00	1.07	0.20	2.E+00	8.56E-04	3.E-01	1.56E-04
<u>129-00-0</u>	Pyrene	X	5.0E-06	1.07	0.20	5.E-06	2.68E-09	1.E-06	4.89E-10
108-88-3	Toluene	X	3.4E-03	1.07	0.20	4.E-03	1.82E-06	7.E-04	3.32E-07
<u>7440-38-2</u>	Arsenic	X	2.0E-04	1.07	0.20	2.E-04	1.07E-07	4.E-05	1.95E-08
7440-39-3	Barium		4.4E-03	1.07	0.20	5.E-03	2.35E-06	9.E-04	4.30E-07
<u>7440-41-7</u>	Beryllium	X	1.2E-05	1.07	0.20	1.E-05	6.42E-09	2.E-06	1.17E-09
<u>7440-43-9</u>	Cadmium	X	1.1E-03	1.07	0.20	1.E-03	5.89E-07	2.E-04	1.07E-07
<u>7440-47-3</u>	Chromium	X	1.4E-03	1.07	0.20	1.E-03	7.49E-07	3.E-04	1.37E-07
<u>7440-48-4</u>	Cobalt	X	8.4E-05	1.07	0.20	9.E-05	4.49E-08	2.E-05	8.21E-09
7440-50-8	Copper		8.5E-04	1.07	0.20	9.E-04	4.55E-07	2.E-04	8.31E-08
<u>7439-96-5</u>	Manganese	X	3.8E-04	1.07	0.20	4.E-04	2.03E-07	7.E-05	3.71E-08
<u>7439-97-6</u>	Mercury	X	2.6E-04	1.07	0.20	3.E-04	1.39E-07	5.E-05	2.54E-08
7439-98-7	Molybdenum		1.1E-03	1.07	0.20	1.E-03	5.89E-07	2.E-04	1.07E-07
<u>7440-02-0</u>	Nickel	X	2.1E-03	1.07	0.20	2.E-03	1.12E-06	4.E-04	2.05E-07
<u>7782-49-2</u>	Selenium	X	2.4E-05	1.07	0.20	3.E-05	1.28E-08	5.E-06	2.35E-09
7440-62-2	Vanadium		2.3E-03	1.07	0.20	2.E-03	1.23E-06	4.E-04	2.25E-07
7440-66-6	Zinc		2.9E-02	1.07	0.20	3.E-02	1.55E-05	6.E-03	2.83E-06
	TOTAL HAP					2.02	0.001	0.37	0.00

Notes:

1. Contaminants indicated are Hazardous Air Pollutants (HAPs) in AP-42 Chapter for NG combustion. However, the contaminants with underlined CAS#'s are not listed on Section 112(b) of the Clean Air Act. Since the contribution of thier emissions are minimal, these contaminants were kept in the emission calculations.
2. For emission factors see AP 42, *Fifth Edition Compilation of Air Pollutant Emissions Factors, Volume 1: Stationary Point and Area Sources - Chapter 1 External Combustion Sources Paragraph 1.4 Natural Gas Combustion - Tables 1.4-1, 1.4-2, 1.4-3 and 1.4-4.*
3. For natural gas (NG) potential usage (MMSCF/yr), the potential yearly usage (PTE) is calculated with the heater output of 0.125 MMBTU/hr. x the 8,760 hr/yr. = 1,095 MMBTU/yr divided by the NG heat content of 1,020 MMBTU/10⁶ cu.ft. = 1.07 MMSCF/yr
4. For natural gas actual usage (MMSCF/yr), the PTE calculated as per note #3 above (1.07 MMSCF/yr) was multiplied by 1600 (hours of operation) / 8760 (PTE hours).
5. Potential to emit (PTE) for each contaminat in lbs/year is calculated multiplying PTE in MMSCF/year times the related emission factor (lb/MMSCF) for that particular contaminant.
6. Potential to emit (PTE) for each contaminat in tons/year is calculated dividing the PTE in lbs/year by 2,000 lbs/ton
7. Actual emission for each contaminat in lbs/year is calculated multiplying Actual Emission in MMSCF/year times the related emission factor (lb/MMSCF) for that particular contaminant.
8. Actual emission (PTE) for each contaminat in tons/year is calculated dividing the PTE in lbs/year by 2,000 lbs/ton

Table #12.2 - EMISSIONS FROM COMBUSTION SOURCES - RESIDENTIAL FURNACE BOILERS (< 0.3 MMBTU/HR) - 0.250 MMBTU/hr USED OIL HEATER

CAS NUMBER	CONTAMINANT ⁽¹⁰⁾	HAP ⁽¹⁾	EMISSION FACTOR ⁽²⁾ , LB/MM SCF	USED OIL USAGE 10 ³ GALL/YEAR		POTENTIAL TO EMIT ⁽⁵⁾ , LBS/YEAR	POTENTIAL TO EMIT ⁽⁶⁾ , TONS/YEAR	ACTUAL EMISSIONS ⁽⁷⁾ , LBS/YEAR	ACTUAL EMISSIONS ⁽⁸⁾ , TONS/YEAR
				PTE ⁽³⁾	ACT ⁽⁴⁾				
0NY210-00-0	Nitrogen Oxides		16	17.52	3.20	280	0.14	51	0.03
000630-08-0	Carbon Monoxide		2	17.52	3.20	37	0.02	7	0.00
0NY750-00-0	Carbon Dioxide		22,000	17.52	3.20	385,440	193	70,400	35
007439-92-1	Lead (9)		50.0 L	17.52	3.20	8.76E+00	4.38E-03	1.6E+00	8.00E-04
0NY075-00-0	Particulates (10)		66.0 A	17.52	3.20	2,313	1.16	422	0.21
007446-09-5	Sulfur Dioxide (11)		107.0 S	17.52	3.20	469	0.23	86	0.04
7440-44-0	Total Organic Carbon (TOC)		1	17.52	3.20	18	0.01	3	0.00
<u>120-12-7</u>	Anthracene	X	1.10E-01	17.52	3.20	2.E+00	9.64E-04	4.E-01	1.76E-04
<u>56-55-3</u>	Benz(a)anthracene	X	4.00E-03	17.52	3.20	7.E-02	3.50E-05	1.E-02	6.40E-06
<u>50-32-8</u>	Benzo(a)pyrene	X	4.00E-03	17.52	3.20	7.E-02	3.50E-05	1.E-02	6.40E-06
<u>117-81-7</u>	Bis(2-ethylhexyl)phthalate		2.20E-03	17.52	3.20	4.E-02	1.93E-05	7.E-03	3.52E-06
85-68-7	Butylbenzylphthalate		5.1E-04	17.52	3.20	9.E-03	4.47E-06	2.E-03	8.16E-07
<u>218-01-9</u>	Chrysene	X	4.00E-03	17.52	3.20	7.E-02	3.50E-05	1.E-02	6.40E-06
<u>84-74-2</u>	Dibutylphthalate		3.40E-05	17.52	3.20	6.E-04	2.98E-07	1.E-04	5.44E-08
<u>25321-22-6</u>	Dichlorobenzene	X	8.0E-07	17.52	3.20	1.E-05	7.01E-09	3.E-06	1.28E-09
91-20-3	Naphthalene	X	1.3E-02	17.52	3.20	2.E-01	1.14E-04	4.E-02	2.08E-05
<u>85-01-8</u>	Phenanathrene	X	1.1E-01	17.52	3.20	2.E+00	9.64E-04	4.E-01	1.76E-04
108-95-2	phenol		2.4E-03	17.52	3.20	4.E-02	2.10E-05	8.E-03	3.84E-06
<u>129-00-0</u>	Pyrene	X	7.1E-03	17.52	3.20	1.E-01	6.22E-05	2.E-02	1.14E-05
7440-36-0	Antimony		4.5E-03	17.52	3.20	8.E-02	3.94E-05	1.E-02	7.20E-06
<u>7440-38-2</u>	Arsenic	X	6.0E-02	17.52	3.20	1.E+00	5.26E-04	2.E-01	9.60E-05
<u>7440-41-7</u>	Beryllium	X	1.8E-03	17.52	3.20	3.E-02	1.58E-05	6.E-03	2.88E-06
<u>7440-43-9</u>	Cadmium	X	1.2E-02	17.52	3.20	2.E-01	1.05E-04	4.E-02	1.92E-05
<u>7440-47-3</u>	Chromium	X	1.9E-01	17.52	3.20	3.E+00	1.66E-03	6.E-01	3.04E-04
<u>7440-48-4</u>	Cobalt	X	5.7E-03	17.52	3.20	1.E-01	4.99E-05	2.E-02	9.12E-06
<u>7439-96-5</u>	Manganese	X	5.0E-02	17.52	3.20	9.E-01	4.38E-04	2.E-01	8.00E-05
<u>7440-02-0</u>	Nickel	X	1.6E-01	17.52	3.20	3.E+00	1.40E-03	5.E-01	2.56E-04
7723-14-0	Phosphorous		3.6E-02	17.52	3.20	6.E-01	3.15E-04	1.E-01	5.76E-05
	TOTAL HAP					12.82	0.01	2.34	1.17E-03

Notes:

- Contaminants indicated are Hazardous Air Pollutants (HAPs) in AP-42 Chapter for NG combustion. However, the contaminants with underlined CAS#'s are not listed on Section 112(b) of the Clean Air Act. Since the contribution of thier emissions are minimal, these contaminants were kept in the emission calculations.
- For emission factors see AP 42, Fifth Edition Compilation of Air Pollutant Emissions Factors, Volume 1: Stationary Point and Area Sources - Chapter 1 External Combustion Sources Paragraph 1.11 Waste Oil Combustion - Space heaters features is not know. Therefore it is assumed worst case scenario (highest values between atomizing vs vaporizing burner)
- For used oil potential usage (103gall/yr), the potential yearly usage (PTE) is calculated with standard used oil consumption of a 0.25MMBTU heater output (2 gall/hr) x 8,760 hr/yr. = 17,520 gall/yr or 17.5 x 103 gall/yr
- For natural gas actual usage (MMSCF/yr), the PTE calculated as per note #3 above (17.5x 103 gall/yr) was multiplied by 1600 (hours of operation) / 8760 (PTE hours) =3.2
- Potential to emit (PTE) for each contaminat in lbs/year is calculated multiplying PTE in MMSCF/year times the related emission factor (lb/MMSCF) for that particular contaminant.
- Potential to emit (PTE) for each contaminat in tons/year is calculated dividing the PTE in lbs/year by 2,000 lbs/ton
- Actual emission for each contaminat in lbs/year is calculated multiplying Actual Emission in MMSCF/year times the related emission factor (lb/MMSCF) for that particular contaminant.
- Actual emission (PTE) for each contaminat in tons/year is calculated dividing the PTE in lbs/year by 2,000 lbs/ton
- Assumed max lead content of 100ppm or 0.01%
- Assumed max ash content 2%
- Assumed max sulfur content 0.25%

Table 13 Facility-wide Emissions

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	PM-10		PM-2.5		SO2		NOx		CO		Lead (elemental)		Total VOC		Total HAP		CO2	
	PTE (tons/yr)	Actual (lbs/yr)	PTE (tons/yr)	Actual (lbs/yr)	PTE (tons/yr)	Actual (lbs/yr)	PTE (tons/yr)	Actual (lbs/yr)	PTE (tons/yr)	Actual (lbs/yr)	PTE (tons/yr)	Actual (lbs/yr)	PTE (tons/yr)	Actual (lbs/yr)	PTE (tons/yr)	Actual (lbs/yr)	PTE (tons/yr)	Actual (lbs/yr)
Batch Mix Plant: Emission Unit V-0001 - Emission Sources BA001 and BU001	3.36	5,611.68	1.03	1,725.07	0.57	956.06	3.11	5,196.00	49.80	83,136.00	1.11E-04	0.18	1.02	1,704.29	0.95	1,581.66	4,606.50	7,690,080
Batch Mix Plant: Emission Unit V-0001 - Emission Sources TLOAD and SILOF (d)	0.23 ^a	382.93 ^a							0.43	721.50			2.79 ^b	4662.82 ^b	0.05	0.04		
Asphalt Cement - Emission Unit 1-ACTKS- (e)													1.92	702.00	0.02	9.13		
Hot oil sytem (exempt) (f)									0.08						2.34E-04 ^c		1,803.53	
residencial space heaters (exempt) (f)	1.16				0.23		0.19		0.04		4.38E-03		1.46E-02 ^b		7.42E-03		256.92	
TOTALS (f)	4.75		1.03		0.81		3.30		50.35		4.49E-03		5.75		1.03		6,666.95	
TOTALS (f) - exempt	3.59	5,994.61	1.03	1,725.07	0.57	956.06	3.11	5,196.00	50.31	83,857.50	1.11E-04	0.18	5.74	7,069.11	1.02	1,590.83	6,410.03	7,690,080

NOTES
(a) as total PM
(b) as TOC
(c) as formaldehyde
(d) for 2 loadouts and 2 silos
(e) for 2 AC tanks
(f) exempt as per 6NYCRR 201-3.2 (c)(1)(i). Therefore only PTE are shown in this Table (to verify non exceedance of MFT) and are not accounted for the facility-wide emissions