

February 13, 2026

Jonathan Cronell

Deputy Regional Permit Administrator, Division of Environmental Permits
New York State Department of Environmental Conservation, Region 4
5786 Widewaters Parkway
Syracuse, New York 13214

Electronically submitted via email only

RE: Response to Notice of Incomplete Application (NOIA) for 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. Cronell:

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) Notice of Incomplete Application (NOIA - see 9/17/25 letter in Appendix A) on the Facility ASF Permit application. An initial ASF Permit application was submitted by BBP on 6/9/2025.

This response letter is formatted with text from the Department 9/17/25 NOIA in **bold**, followed by BBP's response. Please note that, for ease of review, some Department's comments are not reproduced in full within this response letter. A complete and unedited copy of the comments is included in Appendix A and is incorporated herein by reference.

Comment #1 - Air State Facility Permit Application Material:

- a. Please submit all the application materials required, in accordance with 6 NYCRR Part 201 Permits and Registrations, Subpart 201-5 State Facility Permits Application, Application Content (Part 201-5.2).**

Response to Comment 1a:

The application material submitted includes the following:

1. NYSDEC ASF Permit application (Appendix B)
2. Plot Plan/Site Plan (Appendix C)
3. Facility process flow diagram (Appendix D)
4. Form for methods used to Determine compliance (Appendix E)
5. Emissions Calculations (Appendix F)
6. AERSCREEN Modeling for formaldehyde (Appendix G)
7. Abbreviated Public Participation Plan (Appendix H – see also comment 4 below)
8. Full Environmental Assessment Form (FEAF) (Appendix I - see also comment 5 below)



b. “Calculated Annual Production Level”. (see complete NYSDEC comment in Appendix A)

Response to Comment 1b:

The production data used to calculate the 207,840 tons/yr. as the average of the 3 highest production calendar years of asphalt mixture from the five most recent calendar year, used to determine the annual production level, are as follows:

2024: 214,594

2023: 203,911

2022: 205,014

2021: 199,620

2020: 195,146

$$3 \text{ highest year average} = \frac{214,594 + 203,911 + 205,014}{3} = 207,839.7$$

As such it is confirmed that the production level places BBP in the 6 NYCRR Subpart 220-3 compliance timeline for Asphalt Mixture Processing Units with production levels between 75,000 and 250,000 tons per year.

c. Page 18 of the application indicates that Broome Bituminous has asphalt storage tanks at the site. The size and quantity of these tanks should be specified, and a separate emission unit should be identified for these tanks.

Response to Comment 1c:

BBP has two (2) identical 35,000-gallon asphalt cement (AC) storage tanks on site. See tank specification in Table 9.2 of Appendix F (emission calculations). Emission unit 1-ACTKS has been identified in the application.

Comment #2 - Emission Calculations:

a. The application lacks calculations for speciated hazardous air pollutants (HAPs) and polycyclic aromatic hydrocarbons (PAHs) from asphalt manufacturing. See AP-42, Vol. I: Section 11.1 Hot Mix Asphalt Plants for pertinent emissions factors.

Response to Comment 2a:

The calculations for HAPs and PAH are reported in Tables 1, 2, 7 and 8 of Appendix F (emission calculations)

b. The application lacks calculations for some common pollutants expected from asphalt manufacturing. For example, both sulfur dioxide (SO₂) and carbon dioxide (CO₂) are missing from the emissions calculations on page 17.



Response to Comment 2b:

The calculations for SO₂ and CO₂ are reported in Tables 1, 2, 10 and 11 of Appendix F (emission calculations)

- c. Regardless of size, fugitive volatile organic compound (VOC) emissions from liquid asphalt storage tanks should be considered in the application. The latest version of TANKS software (or equivalent) should be used to complete these calculations. See section 7.1 of AP-42: Compilation of Air Emissions Factors for more information.**

Response to Comment 2c:

The USEPA TANKS 5.1 software was used to calculate the fugitive emission from the two (2) 35,000-gallon AC tanks. The tanks input data used in the TANKS 5.1 software and the emission calculations are reported in Tables 9.1, 9.2 and 9.3 of Appendix F (emission calculations)

- d. There was not a consideration of emissions from a hot oil system in the application. If the facility operates a hot oil system, emissions should be calculated using the information in section 11.1 of AP-42: Compilation of Air Emissions Factors. Any other exempt combustion sources should be considered as well.**

Response to Comment 2d:

The facility operates a natural gas (NG) hot oil system with a 2.1 MMBTU/hr Power Flame Burner that heats oil that is circulated through the AC tanks. The emission calculations are reported in Tables 10 and 11 of Appendix F (emission calculations). The Facility has (6) small furnaces used for heating purposed (in the maintenance garage and office spaces) that are also considered exempt as per 6NYCRR 201-3.2 (c)(1)(i).

- e. The application lacks the consideration of emissions from silo filling and load-out operations. Emissions should be calculated using the information in section 11.1 of AP-42: Compilation of Air Emissions Factors**

Response to Comment 2e:

The emission calculations for silo filling and truck loadout are reported in Tables 3 through 8 of Appendix F (emission calculations)

Additional Note on Emission Calculations:

Based on the emission calculations performed for the Air State Facility Permit Application, actual annual emissions of formaldehyde were estimated at 153.80 pounds per year (lb/yr), from the HMA batch plant. These emissions exceed the 6 NYCRR Part 212 HTAC mass emission limits of 100 lb/yr. HTACs that exceed the mass emission limit are required to be modeled to determine if the fence line concentrations are below the AGCs for annual emission rates and SGCs for hourly emission rates for the applicable contaminant. AESCREEN modeling has been used to determine the fence line concentration of formaldehyde. As illustrated in Appendix G, the formaldehyde concentrations are below the SGC/AGC limits and therefore in compliance with 6 NYCRR Part 212.



Comment #3 - Climate Leadership and Community Protection Act (CLCPA):

- a. DEC understands that Broome Bituminous Products does not process aggregate or use emergency diesel engines at its Vestal location. DEC also understands that the facility does not own or operate fossil fuel fired combustion units (e.g. boilers) with maximum heat input capacities exceeding 10 MMBtu/hr (liquid or gaseous fuel). If the facility operates a source similar to what is mentioned above, additional consideration may be required to ensure that Broome Bituminous meets the requirements of CLCPA Section 7(2). Please confirm the statements presented above are accurate.

Response to Comment 3a:

The statements presented above in Comment 3a are accurate as the combustion units at the facility do not exceed the max input capacity of 10 MMBTU/hr.

Comment #4 – Environmental Justice:

- a. “Submittal of an abbreviated Public Participation Plan (aPPP) as per Commissioner Policy 29 (CP-29)” (see complete NYSDEC comment in Appendix A).

Response to Comment 4a:

An aPPP is provided in Appendix H as instructed by the Department.

Comment #5 – State Environmental Quality Review Act (SEQR):

- a. It appears that an environmental assessment form (EAF) was not included with the application. This form is required for DEC to make a SEQR determination for application(s). The EAF can be found on the State Environmental Quality Review Act (SEQR) Forms webpage: <https://dec.ny.gov/regulatory/permits-licenses/seqr>. Please complete Part 1 of the Full EAF..

Response to Comment 4a:

A Full EAF provided in Appendix I as instructed by the Department.

Regards,

P.W. GROSSER CONSULTING



Massimiliano Lelli, CSP
Project Manager

ECC: (electronic submittal)

DEP.R7@dec.ny.gov

Aidan Shea/ Assistant Engineer – 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 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

Appendix A
NYSDEC 9/17/25 NOIA





September 17, 2025

Broome Bituminous Products Inc.
Attn: Daniel Gates
416 Prentice Rd
Vestal, NY, 13850

**Re: Broome Bituminous Products
Air State Facility (ASF) Permit Application
DEC ID #: 7-0348-00009/02001
Town of Vestal, Broome County**

NOTICE OF INCOMPLETE APPLICATION

Dear Daniel Gates:

The New York State Department of Environmental Conservation (DEC) has reviewed the application materials for the above referenced project. This information was received by the DEC on June 9, 2025. The facility currently operates pursuant to DEC Air Facility Registration (AFR) Permit No. 7-0348-00009/02000. The facility operates as a hot mix asphalt batching plant. A rotary dryer is utilized to heat and dry the aggregate materials. A baghouse equipped with cloth filters is implemented to manage particulate emissions. The emissions of nitrogen oxides (NOx) and carbon monoxide (CO) generated from natural gas combustion are capped below the major facility thresholds in 6 NYCRR Part 201 through production limits. Broome Bituminous Products Inc. has submitted an application for coverage under and Air State Facility (ASF) permit.

Based upon DEC's review of the submitted information, we have determined the application to be incomplete. Please submit the following information so that application processing may proceed:

1. Air State Facility Permit Application Materials

Please address the following items:

- a. Please submit all the application materials required, in accordance with 6 NYCRR Part 201 Permits and Registrations, Subpart 201-5 State Facility Permits Application, Application Content ([Part 201-5.2](#)).
- b. "Calculated Annual Production Level" [[6 NYCRR 220-3.2\(10\)](#)] is determined by taking the average of the three highest manufacturing calendar years of asphalt mixture from the previous five most recent calendar years at an Asphalt Mixture Processing Unit, looking back from the effective date of Subpart 220-3. The full calculation and the production years used to derive the final production level must be shown on the application. The application reports a "Calculated Annual Production Level" of 207,840 tons per year, however no calculation is shown. Please show all calculations.

This production would place Broome Bituminous in the 6 NYCRR Subpart 220-3 compliance timeline for Asphalt Mixture Processing Units with production levels between 75,000 and 250,000 tons per year. If, while considering this item, annual production falls out of the range of 75,000 to 250,000 tons per year, the compliance timeline imposed by Subpart 220-3 would change.

- c. Page 18 of the application indicates that Broome Bituminous has asphalt storage tanks at the site. The size and quantity of these tanks should be specified, and a separate emission unit should be identified for these tanks.

2. Emissions Calculations

- a. The application lacks calculations for speciated hazardous air pollutants (HAPs) and polycyclic aromatic hydrocarbons (PAHs) from asphalt manufacturing. See [AP-42, Vol. I: Section 11.1 Hot Mix Asphalt Plants](#) for pertinent emissions factors.
- b. The application lacks calculations for some common pollutants expected from asphalt manufacturing. For example, both sulfur dioxide (SO₂) and carbon dioxide (CO₂) are missing from the emissions calculations on page 17.
- c. Regardless of size, fugitive volatile organic compound (VOC) emissions from liquid asphalt storage tanks should be considered in the application. The latest version of TANKS software (or equivalent) should be used to complete these calculations. See section 7.1 of *AP-42: Compilation of Air Emissions Factors* for more information.
- d. There was not a consideration of emissions from a hot oil system in the application. If the facility operates a hot oil system, emissions should be calculated using the information in section 11.1 of *AP-42: Compilation of Air Emissions Factors*. Any other exempt combustion sources should be considered as well.
- e. The application lacks the consideration of emissions from silo filling and load-out operations. Emissions should be calculated using the information in section 11.1 of *AP-42: Compilation of Air Emissions Factors*.

3. Climate Leadership and Community Protection Act (CLCPA)

- a. DEC understands that Broome Bituminous Products does not process aggregate or use emergency diesel engines at its Vestal location. DEC also understands that the facility does not own or operate fossil fuel fired combustion units (e.g. boilers) with maximum heat input capacities exceeding 10 MMBtu/hr (liquid or gaseous fuel). If the facility operates a source similar to what is mentioned above, additional consideration may be required to ensure that Broome Bituminous meets the requirements of [CLCPA Section 7\(2\)](#). Please confirm the statements presented above are accurate.

4. Environmental Justice

- a. This facility is located in a Potential Environmental Justice Areas (PEJA), and it appears the facility would be increasing its carbon monoxide (CO) potential to emit (PTE) with the change in permit type. Therefore, this application is subject to Commissioner Policy 29 (CP-29), Environmental Justice and Permitting, which provides guidance for incorporating environmental justice concerns into the NYSDEC environmental review process and the DEC application of the State Quality Review Act. Compliance with CP-29 requires development of a public participation plan (PPP) and enhanced public outreach. CP-29 and additional policy and regulation information can be found at the following link: [Commissioner Policy 29, Environmental Justice and Permitting - NYS Dept. of Environmental Conservation](#). A map that depicts PEJAs relative to your project location may be obtained by utilizing the [DECinfo Locator](#) and activating the Public Involvement Layers on the DECinfo Locator.

In general, compliance with CP-29 requires development of a public participation plan (PPP) and enhanced public outreach. However, based on the Department's review of the application, DEC will require an abbreviated process to ensure this project complies with CP-29. An abbreviated public participation plan must be prepared including a factsheet. This document is not required to include highly specific, technical information but rather should provide a simple, concise narrative with appropriate figures and maps, as necessary, to demonstrate that the proposed project will not disproportionately impact the nearby PEJA. Please see the enclosed PPP template to assist you in preparing this document. A factsheet template can be found in Appendix C of the PPP template.

The abbreviated PPP for the proposed project must include the information required in Sections I, II, IV and VI. Figures 1 and 2 should be included along with any other relevant figures or maps to help document compliance with CP-29. For Section III, please identify local civic, community, environmental and religious centers for posting the Fact Sheet. For Section V, only the Fact Sheet and Distribution will be required at this time, with distribution being carried out by providing local civic, community, environmental and religious centers with the Fact Sheet for posting. For Section VII, a progress report will not be required, and a Final Summary Report and Written Certification will only be required at this time. Once these documents are reviewed and approved by DEC, they must be posted on a publicly accessible website and a link to the documents will be provided in the Notice of Complete Application. The factsheet should be posted at locations around the community such as the nearby school, church, and community centers.

Once you have prepared your draft PPP, please submit it to the DEC for review. Please be aware, if CO emissions are capped below 50 tons per year and PTE does not change, the facility may have the opportunity to bypass CP-29 and the EPPP, provided there exists an agreement to limit the carbon monoxide emissions to the current Air Facility Registration (AFR) level for Potential to Emit (PTE).

5. State Environmental Quality Review Act (SEQR)

- a. It appears that an environmental assessment form (EAF) was not included with the application. This form is required for DEC to make a SEQR determination for application(s). The EAF can be found on the State Environmental Quality Review Act (SEQR) Forms webpage: <https://dec.ny.gov/regulatory/permits-licenses/seqr>. Please complete Part 1 of the Full EAF.

No further action can be taken on this application until all the requested information is received. Please respond with one (1) electronic copy of the requested information. Please respond to this notice within ninety (90) days. Depending on the information you provide, additional information may be requested.

Be advised that due to the fact this is considered a major project, in accordance with Uniform Procedure Act (UPA), 6 NYCRR Part 621, Regulations, once the Department considers the application complete, it will be required to undergo 30 days of public notice. The applicant will be responsible for publishing the Notice of Complete Application in the official newspaper of the town in which the project will occur. Any comments received must be addressed before a final permit decision is made.

Re: Broome Bituminous Products
Air State Facility (ASF) Permit Application
DEC ID #: 7-0348-00009/02001
Town of Vestal, Broome County

Date: 9/17/2025

If you have any technical questions pertaining to Air Pollution Control Regulations please contact Aiden Shea, Division of Air Resources, at (315) 426-7485. If you have any questions pertaining to this letter, please contact me at (315) 426-5494.

Sincerely,

A handwritten signature in black ink, appearing to read "Jonathan Cronell". The signature is fluid and cursive, with the first name "Jonathan" and last name "Cronell" clearly distinguishable.

Jonathan Cronell
Deputy Regional Permit Administrator
Division of Environmental Permits, Region 7
(315) 426-5494

Encl: NYSDEC Public Participation Plan Template
cc: A. Shea / M. Wheeler, R7 DAR
N. Walz, Broome Bituminous Products, Inc.



Appendix B
BBP NYSDEC ASF Permit application – DEC ID# 7-0348-00009



New York State Department of Environmental Conservation

Air Permit Application



Department of
Environmental
Conservation

DEC ID									
7	-	0	3	4	8	-	0	0	9

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 2/12/2026
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 No. 105360
Signature	Date 2/13/2026

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



Department of
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Conservation

DEC ID										
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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)			

New York State Department of Environmental Conservation

Air Permit Application Form



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Section III - Facility Information

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NEW YORK
STATE OF
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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



Department of
Environmental
Conservation

DEC ID										
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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		3.54	5,909.77	
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		50.10	83,496.75	
007439 - 92 - 1	Lead (elemental)		1.11E-04	0.18	
ONY998 - 00 - 0	Total Volatile Organic Compounds		2.10	3,735.80	
ONY100 - 00 - 0	Total Hazardous Air Pollutants		0.95	1,584.70	
ONY750 - 00 - 0	Carbon Dioxide Equivalents		6,410.03	7,690,080	

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	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 50.10 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		

Continuation Sheet 1 of page 3

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	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 2.10 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		

Continuation Sheet 2 of page 3

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		(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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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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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)	(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. The 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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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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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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7	-	0	3	4	8	-	0	0	0	9

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. 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					

New York State Department of Environmental Conservation Air Permit Application



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7	-	0	3	4	8	-	0	0	0	9

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		A C T			
CAS Number	Contaminant Name		% Thruput	% Capture	% Control	ERP (lbs/hr)	ERP How Determined				
ONY998-00-0	VOC		100	100	90	0.146	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					0.146	233.98				

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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DEC ID										
7	-	0	3	4	8	-	0	0	0	9

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

NEW YORK
STATE OF
OPPORTUNITY

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Section IV - Emission Unit Information

Continuation Sheet 1 of page 8

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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		

Continuation Sheet 2 of page 8

New York State Department of Environmental Conservation

Air Permit Application Form



DEC ID										
7	-	0	3	4	8	-	0	0	0	9

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		

Continuation Sheet 3 of page 8

New York State Department of Environmental Conservation

Air Permit Application Form



DEC ID									
7	-	0	3	4	8	-	0	0	9

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		

Continuation Sheet 4 of page 8

New York State Department of Environmental Conservation Air Permit Application Form



DEC ID										
7	-	0	3	4	8	-	0	0	0	9

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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New York State Department of Environmental Conservation

Air Permit Application Form



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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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New York State Department of Environmental Conservation Air Permit Application



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Determination of Non-Applicability (Title V Applications Only) ☐ Continuation Sheet(s)

Rule Citation									
Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
Emission Unit		Emission Point		Process	Emission Source		Applicable Federal Requirement State Only Requirement		

Non-Applicability Description

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Rule Citation									
Title	Type	Part	Subpart	Section	Subdivision	Paragraph	Subparagraph	Clause	Subclause
Emission Unit		Emission Point		Process	Emission Source		Applicable Federal Requirement State Only Requirement		

Non-Applicability Description

--	--	--	--	--	--	--	--	--	--

Compliance Plan ☐ Continuation Sheet(s)

For any emission units which are not in compliance at the time of permit application, the applicant shall complete the following:

Consent Order		Certified progress reports are to be submitted every 6 months beginning	/	/
---------------	--	---	---	---

Emission Unit	Process	Emission Source	Applicable Federal Requirement										
			Title	Type	Part	Subpart	Section	Subdiv.	Parag.	Subparag.	Clause	Subcl.	

Remedial Measures and Intermediate Milestones										R/I	Date Scheduled

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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

--

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

New York State Department of Environmental Conservation Air Permit Application



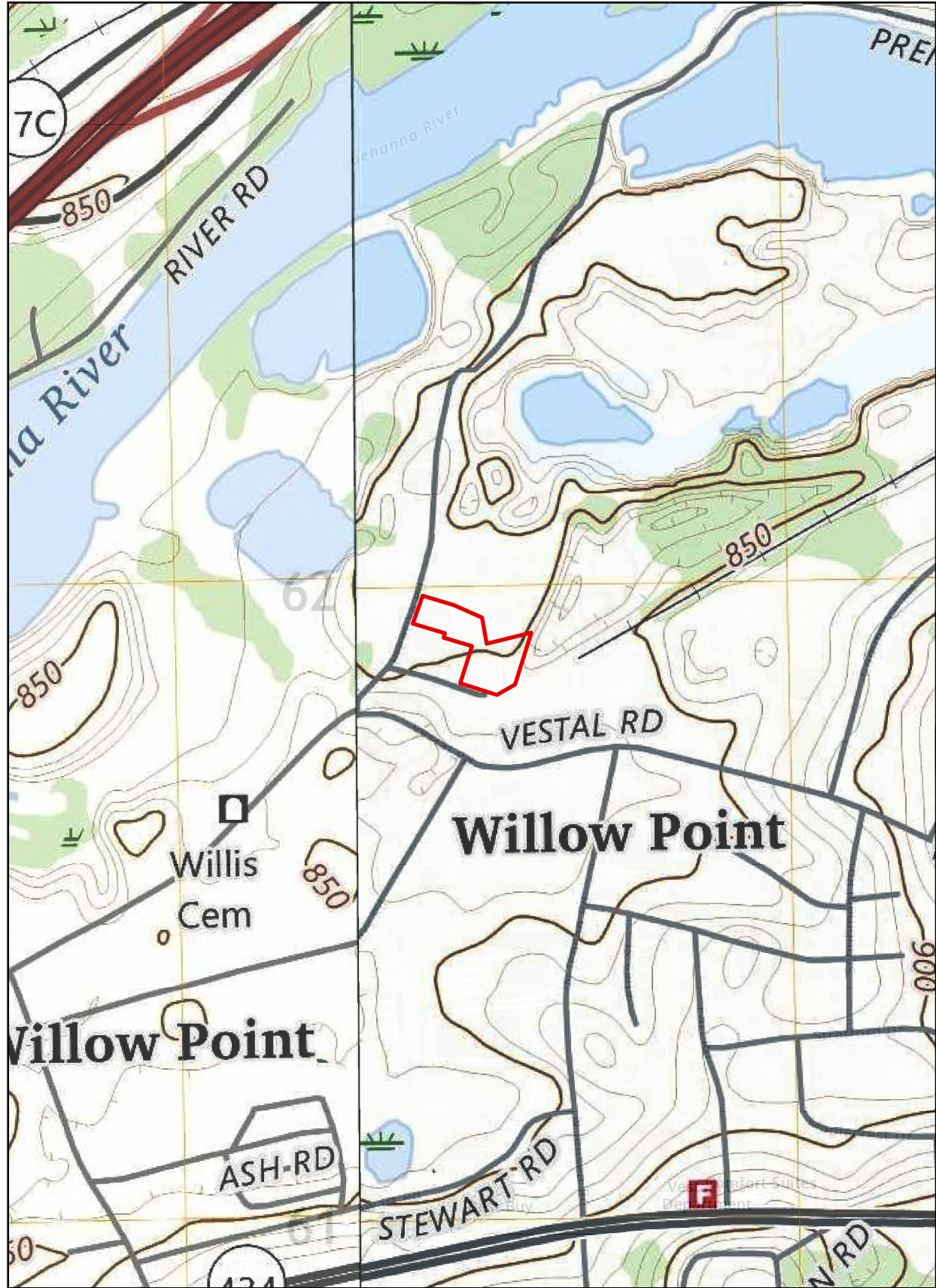
Department of
Environmental
Conservation

DEC ID									
7	-	0	3	4	8	-	0	0	9

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	2/10/2026
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 C Plot Plan/Site Plan





PWGC

ENVIRONMENTAL ENGINEERING & CONSULTING
P.W. GROSSER CONSULTING ENGINEER
AND HYDROGEOLOGIST, D.P.C.

630 Johnson Avenue, Suite 7
Bohemia, NY • 11716-2618
Phone: 631.589.6353 • Fax: 631.589.8705
Email: pwgc.info@pwgros.com

UNAUTHORIZED ALTERATION OR ADDITION TO THIS
DRAWING AND RELATED DOCUMENTS IS A VIOLATION
OF SEC. 7209 OF THE N.Y.S. EDUCATION LAW

DRAWING PREPARED FOR:

REVISION	DATE	INITIAL	COMMENTS
----------	------	---------	----------

DRAWING INFORMATION:

Project:	BBP2601	Designed by:	ML
Date:	2/10/2026	Drawn by:	AM
Scale:	AS SHOWN	Approved by:	ML

Topo Map/ Plot Plan

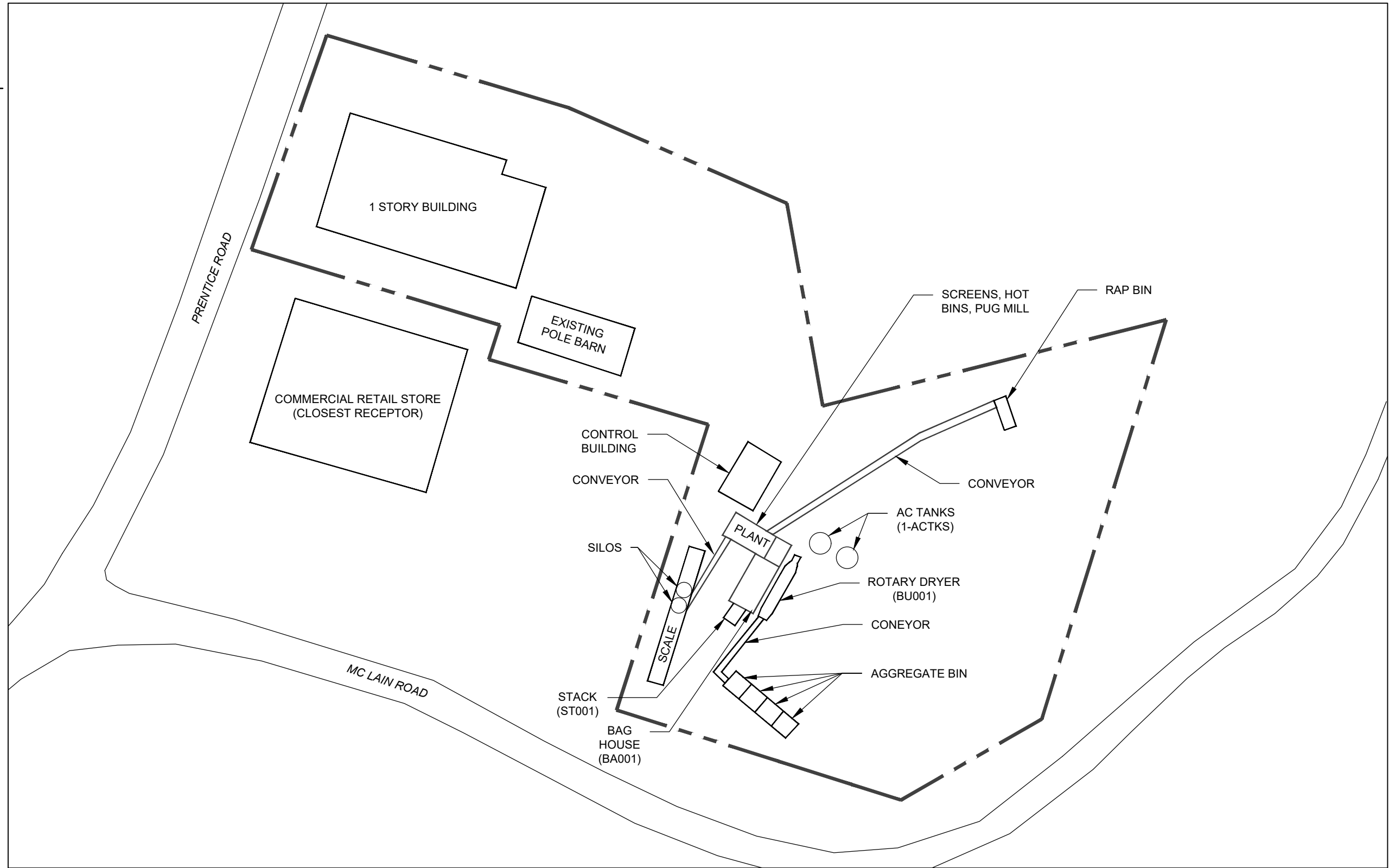
416 Prentice Road
Vestal, NY

FIGURE NO:

1

0 500 1,000 2,000
US Feet

Site Boundary



Legend

SITE BOUNDARY

SITE PLAN

SCALE: 1" = 75'

075150

075150

SCALE: 1" = 75'

**PWGC**
CLIENT DRIVEN SOLUTIONS
P.W. GROSSER CONSULTING ENGINEER
AND HYDROGEOLOGIST, D.P.C.

630 Johnson Avenue • Suite 7
Bohemia • NY • 11716-2518
Phone: (631) 589-6353 • Fax: (631) 589-8705
E-mail: INFO@PWGROSSER.COM

CONSULTANTS

7		
6		
5		
4		
3		
2		
1		

Designed By	ML	Date Submitted	
Drawn By	AM	Date Created	2/6/2026
Approved By	ML	Scale	AS SHOWN

Client:

Project:

Project Address:
**416 PRENTICE ROAD
VESTAL TOWNSHIP
BROOME COUNTY, NY**

County Tax Map Number: Contract Number:

Regulatory Reference Number:

Title of Drawing:

SITE PLAN



Drawing Number:

2

Sheet

of

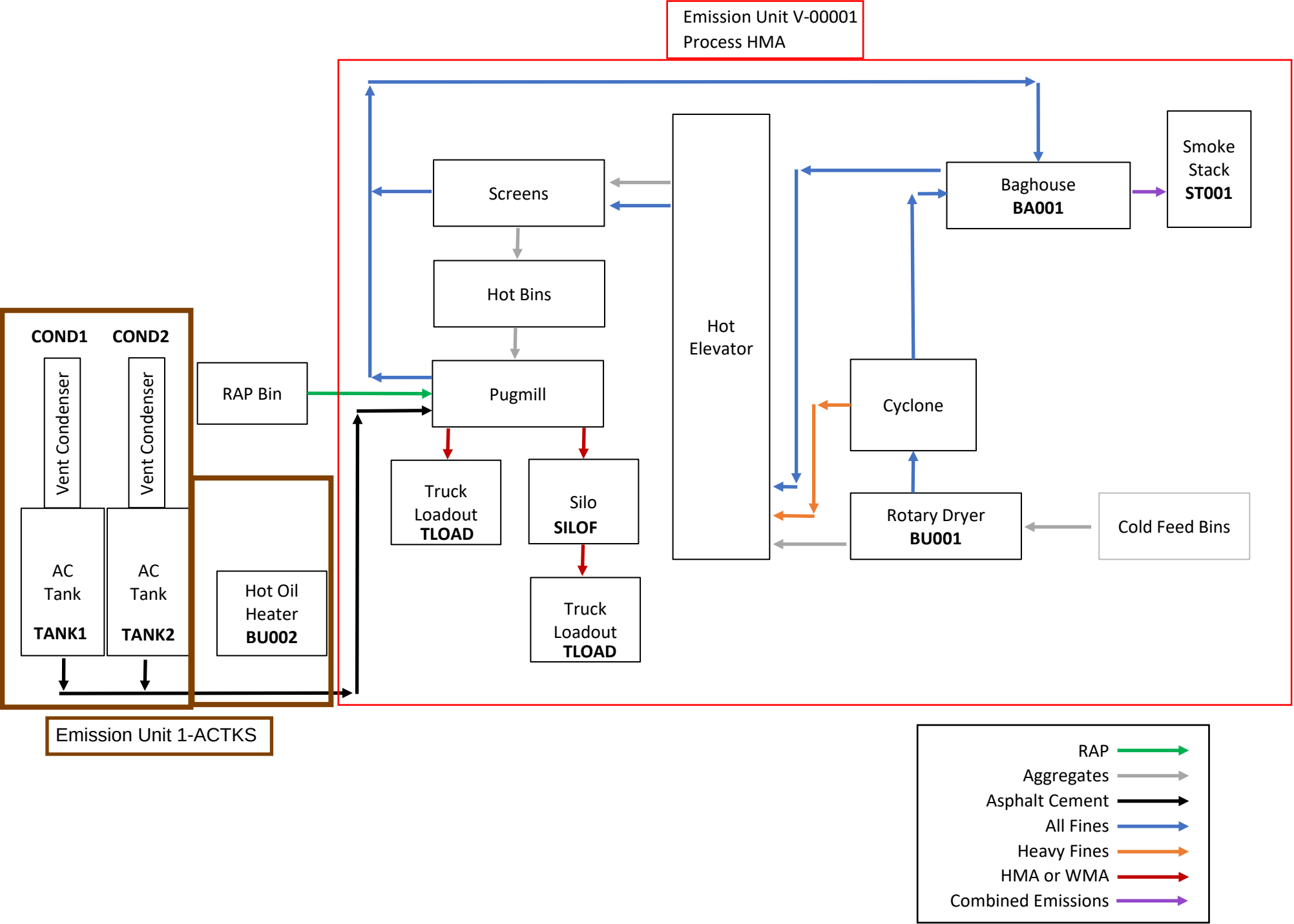
Public Project Number:

BBP2601

Appendix D
Facility process flow diagram



Process Flow Diagram



Appendix E
Form for methods used to Determine compliance



New York State Department of Environmental Conservation
Air Permit Application



**Department of
Environmental
Conservation**

DEC ID										
7	-	0	3	4	8	-	0	0	0	9

Methods Used to Determine Compliance			
Emission Unit ID	Applicable Requirement	Method Used to Determine Compliance	Compliance Date
V-0001	6 NCYRR 220 3.3 (a)	record the following information once daily, as applicable, 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.	daily
V-0001	6 NCYRR 220 3.3 (b)(1)	An annual service must, performed by a qualified employee/ vendor on the dryer burner. All annual service records will 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.	annually
V-0001	6 NCYRR 220 3.3 (b)(2)	Annual tune-up will be performed by a qualified employee or vendor on the hot oil heater	annually
V-0001	6 NCYRR 220 3.3 (b)(4)	(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. 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 records will 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.	annually
V-0001	6 NCYRR 220 3.4	install equipment that is designed to capture and control emissions of volatile organic compounds (VOCs) associated with the heating of asphalt cement storage tanks. Each asphalt cement storage tank shall vent through a tank vent condenser	9/5/2025
V-0001	6 NCYRR 220 3.5 (b)	submit, at least thirty (30) calendar days prior to commencing an emission test (for NOx and PM), a test protocol to the department for review and approval and 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.	Once during the term of permit
V-0001	6 NCYRR 220 3.8 (a)	Perform opacity test as per USEPA Method 9 to confirm that an average opacity of 20 percent or greater during any six consecutive minutes from any process emission source or emission point, is not exceeded.	annually
V-0001	6 NCYRR 220 3.9 (c)	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 will 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.	annually
V-0001	6 NCYRR 220 3.10	Control fugitive dust from site roadways, plant, storage piles and vehicles with applicable measures as per Part 220-3.10	continuous during plant operations

Appendix F Emissions Calculations



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

INPUT DATA

<i>production (P)</i> =	249,000	tpy (production)
<i>volatility (V)</i> =	-0.25	
<i>Temperature (T)</i> =	310	° F

EF CALCULATIONS - AP-42 Table 11.1-14 - LOAD OUT		
CO - EF = $0.00558(-V)e((0.0251)(T + 460) - 20.43)$	=	0.000462964
TOC - EF = $0.00172(-V)e((0.0251)(T + 460) - 20.43)$	=	0.000142706
Organic PM - EF = $0.00141(-V)e((0.0251)(T + 460) - 20.43)$	=	0.000116986
Total PM - EF = $0.000181 + 0.00141(-V)e((0.0251)(T + 460) - 20.43)$	=	0.000297986

EF CALCULATIONS - AP-42 Table 11.1-14 - SILO FILLING		
CO - EF = $0.00488(-V)e((0.0251)(T + 460) - 20.43)$	=	0.000404886
TOC - EF = $0.0504(-V)e((0.0251)(T + 460) - 20.43)$	=	0.004181612
Organic PM - EF = $0.00105(-V)e((0.0251)(T + 460) - 20.43)$	=	0.000087117
Total PM - EF = $0.000332 + 0.00105(-V)e((0.0251)(T + 460) - 20.43)$	=	0.000419117

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)	0.000463	<u>115.28</u>	<u>0.06</u>	<u>0.013</u>
TOC (emission calculations) = EF x production (tpy)	0.000143	<u>35.53</u>	<u>0.02</u>	<u>0.004</u>
Organic PM (emission calculations) = EF x production (tpy)	0.000117	<u>29.13</u>	<u>0.01</u>	<u>0.003</u>
Total PM (emission calculations) = EF x production (tpy)	0.000298	<u>74.20</u>	<u>0.04</u>	<u>0.008</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)	0.000405	<u>100.82</u>	<u>0.05</u>	<u>0.012</u>
TOC (emission calculations) = EF x production (tpy)	0.004182	<u>1041.22</u>	<u>0.52</u>	<u>0.12</u>
Organic PM (emission calculations) = EF x production (tpy)	0.000087	<u>21.69</u>	<u>0.01</u>	<u>0.002</u>
Total PM (emission calculations) = EF x production (tpy)	0.000419	<u>104.36</u>	<u>0.05</u>	<u>0.012</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

INPUT DATA

<i>production (P)</i> =	207,840	tpy (production)
<i>volatility (V)</i> =	-0.25	
<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)	=	0.000462964
TOC - EF = 0.00172(-V)e((0.0251)(T + 460) - 20.43)	=	0.000142706
Organic PM - EF = 0.00141(-V)e((0.0251)(T + 460) - 20.43)	=	0.000116986
Total PM - EF = 0.000181 + 0.00141(-V)e((0.0251)(T + 460) - 20.43)	=	0.000297986

EF CALCULATIONS - AP-42 Table 11.1-14 - SILO FILLING		
CO - EF = 0.00488(-V)e((0.0251)(T + 460) - 20.43)	=	0.000404886
TOC - EF = 0.0504(-V)e((0.0251)(T + 460) - 20.43)	=	0.004181612
Organic PM - EF = 0.00105(-V)e((0.0251)(T + 460) - 20.43)	=	0.000087117
Total PM - EF = 0.000332 + 0.00105(-V)e((0.0251)(T + 460) - 20.43)	=	0.000419117

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)	0.000463	<u>96.22</u>	<u>0.05</u>	<u>0.0602</u>
TOC (emission calculations) = EF x production (tpy)	0.000143	<u>29.66</u>	<u>0.01</u>	<u>0.019</u>
Organic PM (emission calculations) = EF x production (tpy)	0.000117	<u>24.31</u>	<u>0.01</u>	<u>0.015</u>
Total PM (emission calculations) = EF x production (tpy)	0.000298	<u>61.93</u>	<u>0.03</u>	<u>0.039</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)	0.000405	<u>84.15</u>	<u>0.04</u>	<u>0.0602</u>
TOC (emission calculations) = EF x production (tpy)	0.004182	<u>869.11</u>	<u>0.43</u>	<u>0.0185</u>
Organic PM (emission calculations) = EF x production (tpy)	0.000087	<u>18.11</u>	<u>0.01</u>	<u>0.0152</u>
Total PM (emission calculations) = EF x production (tpy)	0.000419	<u>87.11</u>	<u>0.04</u>	<u>0.0387</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**

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%	0.0757	0.0632	0.102	0.0851
Acenaphthylene	208-96-8	0.028%	0.014%	0.0082	0.0068	0.003	0.0025
Anthracene	120-1207	0.070%	0.13%	0.0204	0.0170	0.028	0.0235
Benzo(a)anthracene	56-55-3	0.019%	0.056%	0.0055	0.0046	0.012	0.0101
Benzo(b)fluoranthene	205-99-2	0.0076%	ND ^d	0.0022	0.0018	ND	ND
Benzo(k)fluoranthene	207-08-9	0.0022%	ND ^d	0.0006	0.0005	ND	ND
Benzo(g,h,i)perylene	191-24-2	0.0019%	ND ^d	0.0006	0.0005	ND	ND
Benzo(a)pyrene	50-32-8	0.0023%	ND ^d	0.0007	0.0006	ND	ND
Benzo(e)pyrene	192-97-2	0.0078%	0.0095%	0.0023	0.0019	0.002	0.0017
Chrysene	218-01-9	0.103%	0.21%	0.0300	0.0250	0.046	0.0380
Dibenz(a,h)anthracene	53-70-3	0.00037%	ND ^d	0.0001	0.0001	ND	ND
Fluoranthene	206-44-0	0.050%	0.15%	0.0146	0.0122	0.033	0.0272
Fluorene	86-73-7	0.77%	1.01%	0.2243	0.1872	0.219	0.1829
Indeno(1,2,3-cd)pyrene	193-39-5	0.00047%	ND ^d	0.0001	0.0001	ND	ND
2-Methylnaphthalene	91-57-6	2.38%	5.27%	0.6933	0.5787	1.143	0.9542
Naphthalene	91-20-3	1.25%	1.82%	0.3641	0.3039	0.395	0.3295
Perylene	198-55-0	0.022%	0.030%	0.0064	0.0053	0.007	0.0054
Phenanthrene	85-01-8	0.81%	1.80%	0.2359	0.1969	0.390	0.3259
Pyrene	129-00-0	0.15%	0.44%	0.0437	0.0365	0.095	0.0797
Total PAH HAPs		5.93%	11.40%	1.7274	1.4418	2.473	2.0641
<u>Other semi-volatile HAPs</u>							
Phenol		1.18%	ND ^d		0.2869		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**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%	33.40	27.88	1041.22	869.11
Non-VOC/non-HAPs							
Methane	74-82-8	6.5%	0.26%	2.31	1.93	2.71	2.26
Acetone	67-64-1	0.046%	0.055%	0.02	0.01	0.57	0.48
Ethylene	74-85-1	0.71%	1.1%	0.25	0.21	11.45	9.56
Total non-VOC/non-HAPS		7.3%	1.4%	2.59	2.17	14.58	12.17
Volatile organic HAPS							
Benzene	71-43-2	0.052%	0.032%	0.02	0.02	0.33	0.28
Bromomethane	74-83-9	0.0096%	0.0049%	0.00	0.00	0.05	0.04
2-Butanone	78-93-3	0.049%	0.039%	0.02	0.01	0.41	0.34
Carbon Disulfide	75-15-0	0.013%	0.016%	0.00	0.00	0.17	0.14
Chloroethane	75-00-3	0.00021%	0.0040%	0.00	0.00	0.04	0.03
Chloromethane	74-87-3	0.015%	0.023%	0.01	0.00	0.24	0.20
Cumene	92-82-8	0.11%	ND ^c	0.04	0.03	ND	ND
Ethylbenzene	100-41-4	0.28%	0.038%	0.10	0.08	0.40	0.33
Formaldehyde	50-00-0	0.088%	0.69%	0.03	0.03	7.18	6.00
n-Hexane	100-54-3	0.15%	0.10%	0.05	0.04	1.04	0.87
Isooctane	540-84-1	0.0018%	0.00031%	0.00	0.00	0.00	0.00
Methylene Chloride	75-09-2	0.00% ^d	0.00027%	0.00	0.00	0.00	0.00
MTBE	596899	0.00% ^d	ND ^c	0.00	0.00	ND	ND
Styrene	100-42-5	0.0073%	0.0054%	0.00	0.00	0.06	0.05
Tetrachloroethene	127-18-4	0.0077%	ND ^c	0.00	0.00	ND	ND
Toluene	100-88-3	0.21%	0.062%	0.07	0.06	0.65	0.54
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	0.00	0.00	ND	ND
m-/p-Xylene	1330-20-7	0.41%	0.2%	0.15	0.12	2.08	1.74
o-Xylene	95-47-6	0.08%	0.057%	0.03	0.02	0.59	0.50
Total volatile organic HAPs		1.5%	1.3%	0.53	0.44	13.54	11.30

^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-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

^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*

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	116.99	0.073

* data calculated using the USEPA Tank 5.1 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):	300
Typical Average Liquid Bulk Temperature in Heating Cycle (F):	300
Typical Minimum Liquid Bulk Temperature in Heating Cycle (F)	300
Number of Heating Cycles per Year	1
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 (%):	90%
Annual Throughput (gal/yr):	2701920

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**

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%	116.99	0.073	233.98	0.146
<u>Non-VOC/non-HAPs</u>						
Methane	74-82-8	0.26%	0.30	1.902E-04	0.61	3.805E-04
Acetone	67-64-1	0.055%	0.06	4.024E-05	0.13	8.048E-05
Ethylene	74-85-1	1.1%	1.29	8.048E-04	2.57	1.610E-03
Total non-VOC/non-HAPS		1.4%	1.64	1.024E-03	3.28	2.049E-03
<u>Volatile organic HAPS</u>						
Benzene	71-43-2	0.032%	0.04	2.341E-05	0.07	4.683E-05
Bromomethane	74-83-9	0.0049%	0.01	3.585E-06	0.01	7.170E-06
2-Butanone	78-93-3	0.039%	0.05	2.853E-05	0.09	5.707E-05
Carbon Disulfide	75-15-0	0.016%	0.02	1.171E-05	0.04	2.341E-05
Chloroethane	75-00-3	0.0040%	0.00	2.927E-06	0.01	5.853E-06
Chloromethane	74-87-3	0.023%	0.03	1.683E-05	0.05	3.366E-05
Cumene	92-82-8	ND ^c	ND	ND	ND	ND
Ethylbenzene	100-41-4	0.038%	0.04	2.780E-05	0.09	5.561E-05
Formaldehyde	50-00-0	0.69%	0.81	5.048E-04	1.61	1.010E-03
n-Hexane	100-54-3	0.10%	0.12	7.317E-05	0.23	1.463E-04
Isooctane	540-84-1	0.00031%	0.00	2.268E-07	0.00	4.536E-07
Methylene Chloride	75-09-2	0.00027%	0.00	1.975E-07	0.00	3.951E-07
MTBE	596899	ND ^c	ND	ND	ND	ND
Styrene	100-42-5	0.0054%	0.01	3.951E-06	0.01	7.902E-06
Tetrachloroethene	127-18-4	ND ^c	ND	ND	ND	ND
Toluene	100-88-3	0.062%	0.07	4.536E-05	0.15	9.073E-05
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%	0.23	1.463E-04	0.47	2.927E-04
o-Xylene	95-47-6	0.057%	0.07	4.170E-05	0.13	8.341E-05
Total volatile organic HAPs		1.3%	1.52	9.512E-04	3.04	1.902E-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:

- 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 1.4 Natural Gas Combustion - Tables 1.4-1, 1.4-2, 1.4-3 and 1.4-4.*
- 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
- 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).
- 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

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

	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)	0.18 ^a	298.09 ^a							0.22	360.75			1.08 ^b	1797.53 ^b				
Asphalt Cement - Emission Unit 1-ACTKS- (e)														233.98		3.04		
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)	4.70		1.03		0.81		3.30		50.14		4.49E-03		2.11		0.96		6,666.95	
TOTALS (f) - exempt	3.54	5,909.77	1.03	1,725.07	0.57	956.06	3.11	5,196.00	50.10	83,496.75	1.11E-04	0.18	2.10	3,735.80	0.95	1,584.70	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

Appendix G

AERSCREEN Modeling for formaldehyde



Broome Bituminous Product, Inc.
 416 Prentice Road Vestal NY – HMA Batch Plant

Summary of AERSCREEN Model
 Formaldehyde – NYSDEC SGC/AGC

Model Inputs

Units

Model Inputs		Units
Emission Rate (Avg. Hrly Rate)	0.0962 (see Table 2 in Appendix G)	lb/hr
Stack Height	53	feet (above grade)
Stack (equivalent) Diameter	4.5	feet
Stack Temperature	284	°F
Exit Flow	52,500	ACFM
Fuel	Natural Gas	

Results Summary

<u>Distance from source (ft)</u>	<u>Modeled SGC</u> ug/m ³	<u>SGC Limit</u> ug/m ³	<u>Modeled AGC</u> ug/m ³	<u>AGC Limit</u> ug/m ³
58 (Property line)	0.096	30	0.0096	0.06
328	0.31	30	0.031	0.06

Legend

	Below SGC/AGC Limit
--	---------------------

See Attached AERSCREEN output file

TITLE: FORMALDEHYDE

***** STACK PARAMETERS *****

SOURCE EMISSION RATE:	0.0121 g/s	0.096 lb/hr
STACK HEIGHT:	16.15 meters	53.00 feet
STACK INNER DIAMETER:	1.372 meters	54.00 inches
PLUME EXIT TEMPERATURE:	413.1 K	284.0 Deg F
PLUME EXIT VELOCITY:	16.769 m/s	55.02 ft/s
STACK AIR FLOW RATE:	52500 ACFM	
RURAL OR URBAN:	URBAN	
POPULATION:	29000	

FLAGPOLE RECEPTOR HEIGHT:	1.00 meters	3.28 feet
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INITIAL PROBE DISTANCE =	1000. meters	3281. feet
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***** BUILDING DOWNWASH PARAMETERS *****

NO BUILDING DOWNWASH HAS BEEN REQUESTED FOR THIS ANALYSIS

***** PROBE ANALYSIS *****

25 meter receptor spacing: 18. meters - 1000. meters

Zo SECTOR	ROUGHNESS LENGTH	1-HR CONC (ug/m3)	DIST (m)	TEMPORAL PERIOD
1*	1.000	0.3105	100.0	WIN

* = worst case flow sector

***** MAKEMET METEOROLOGY PARAMETERS *****

MIN/MAX TEMPERATURE: 250.0 / 310.0 (K)

MINIMUM WIND SPEED: 0.5 m/s

ANEMOMETER HEIGHT: 10.000 meters

SURFACE CHARACTERISTICS INPUT: AERMET SEASONAL TABLES

DOMINANT SURFACE PROFILE: Urban
DOMINANT CLIMATE TYPE: Average Moisture
DOMINANT SEASON: Winter

ALBEDO: 0.35
BOWEN RATIO: 1.50
ROUGHNESS LENGTH: 1.000 (meters)

SURFACE FRICTION VELOCITY (U*) ADJUSTED

METEOROLOGY CONDITIONS USED TO PREDICT OVERALL MAXIMUM IMPACT

YR MO DY JDY HR

-- -- -- -- --
10 03 23 23 01

H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS
-64.00	1.206	-9.000	0.020	-999.	3046.	2609.5	1.000	1.50	0.35	7.00

HT	REF TA	HT
10.0	310.0	2.0

WIND SPEED AT STACK HEIGHT (non-downwash): 8.5 m/s
STACK-TIP DOWNWASH ADJUSTED STACK HEIGHT: 16.2 meters
ESTIMATED FINAL PLUME RISE (non-downwash): 5.0 meters
ESTIMATED FINAL PLUME HEIGHT (non-downwash): 21.1 meters

METEOROLOGY CONDITIONS USED TO PREDICT AMBIENT BOUNDARY IMPACT

YR MO DY JDY HR

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10 02 18 23 12

H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS
330.06	0.193	1.800	0.020	673.	195.	-2.1	1.000	2.00	0.16	0.50

HT	REF TA	HT
10.0	310.0	2.0

WIND SPEED AT STACK HEIGHT (non-downwash): 0.6 m/s
 STACK-TIP DOWNWASH ADJUSTED STACK HEIGHT: 16.2 meters
 ESTIMATED FINAL PLUME RISE (non-downwash): 120.0 meters
 ESTIMATED FINAL PLUME HEIGHT (non-downwash): 136.1 meters

***** AERSCREEN AUTOMATED DISTANCES *****
 OVERALL MAXIMUM CONCENTRATIONS BY DISTANCE

DIST (m)	MAXIMUM 1-HR CONC (ug/m3)	DIST (m)	MAXIMUM 1-HR CONC (ug/m3)
17.68	0.9059E-01	525.00	0.7758E-01
25.00	0.1179	550.00	0.7244E-01
50.00	0.2225	575.00	0.6781E-01
75.00	0.2958	600.00	0.6429E-01
100.00	0.3105	625.00	0.6101E-01
125.00	0.2863	650.00	0.5796E-01
150.00	0.2642	675.00	0.5511E-01
175.00	0.2448	700.00	0.5246E-01
200.00	0.2190	725.00	0.4999E-01
225.00	0.1933	750.00	0.4769E-01
250.00	0.1797	775.00	0.4554E-01
275.00	0.1681	800.00	0.4353E-01
300.00	0.1559	825.00	0.4165E-01
325.00	0.1440	850.00	0.3990E-01
350.00	0.1327	875.00	0.3825E-01
375.00	0.1223	900.00	0.3670E-01
400.00	0.1129	925.00	0.3525E-01
425.00	0.1043	950.00	0.3388E-01
450.00	0.9653E-01	975.00	0.3279E-01
475.00	0.8955E-01	1000.00	0.3264E-01
500.00	0.8326E-01		

***** AERSCREEN MAXIMUM IMPACT SUMMARY *****

MAXIMUM	SCALED	SCALED	SCALED	SCALED
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CALCULATION PROCEDURE	1-HOUR CONC (ug/m3)	3-HOUR CONC (ug/m3)	8-HOUR CONC (ug/m3)	24-HOUR CONC (ug/m3)	ANNUAL CONC (ug/m3)
-----	-----	-----	-----	-----	-----
FLAT TERRAIN	0.3105	0.3105	0.2795	0.1863	0.3105E-01

DISTANCE FROM SOURCE 100.00 meters

IMPACT AT THE AMBIENT BOUNDARY	0.9059E-01	0.9059E-01	0.8153E-01	0.5435E-01	0.9059E-02
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DISTANCE FROM SOURCE 17.68 meters

Appendix H

Abbreviated Public Participation Plan



PUBLIC PARTICIPATION PLAN

Applicant:

Broome Bituminous Products, Inc

Facility:

Broome Bituminous Products, Inc
416 Prentice Rd
Vestal, NY 13850

NYSDEC Application Number:

[TBD]

As Required by:

NYSDEC Commissioner's Policy Guidance CP-29

Submitted to:

New York State Department of Environmental Conservation
Division of Environmental Permits, Region 7
5786 Widewaters Parkway
Syracuse, NY 13214

Date:

February 11, 2026

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- I. Introduction and Objective
- II. Project Description and Proposed Action
 - Project Overview
 - Nature of Proposed Project/Action and Purpose
 - Potential Impacts
- III. Stakeholder Identification & Contact List
- IV. Project Liaison
- V. Public Outreach Activities
 - Fact Sheet Preparation and Distribution
 - Distribution of Notice of Complete Application
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 - Final Summary Report and Written Certification

Figures

- 1. Project Location and Potential Environmental Justice Area(s) Map
- 2. Site Plan

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- A. Contact List
- B. Virtual Public Meeting Notice (not required at this time)
- C. Fact Sheet

List of Acronyms

Acronym	Definition
CP-29	Commissioner Policy 29, Environmental Justice and Permitting
NOCA	Notice of Complete Application
NYSDEC	New York State Department of Environmental Conservation
PEJA	Potential Environmental Justice Area
PPP	Public Participation Plan

I. INTRODUCTION AND OBJECTIVE

This abbreviated Public Participation Plan (aPPP) has been prepared by Broome Bituminous Products, Inc (hereinafter referred to as “applicant”) to fulfill and comply with the requirements of New York State Department of Environmental Conservation **Commissioner Policy 29, Environmental Justice and Permitting (CP-29)** for their existing Asphalt Plant, that requires a Air State Facility application and which has been determined by NYSDEC to potentially impact one or more potential environmental justice area (PEJA) (See Figure 1).

This PPP has been developed in accordance with the procedures established in CP-29 Section V.D and it aims to help ensure meaningful and effective public participation throughout the NYSDEC environmental permit review process. Public participation in the NYSDEC environmental permit review process means a program of activities that provides opportunities for stakeholders to be informed about and involved during the review of a proposed action.

The objective of this PPP is to outline and describe the program of activities that the applicant will implement to actively seek and enhance public participation during the application review process.

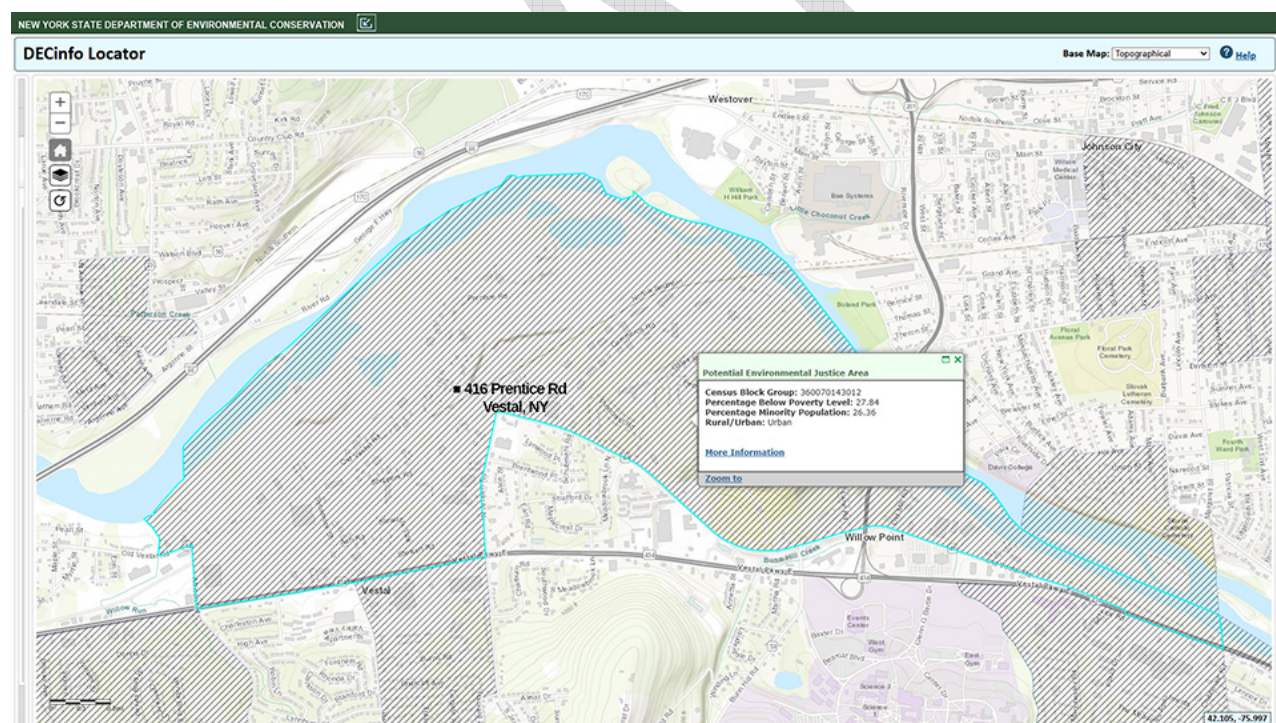


Figure 1. Project Location and Potential Environmental Justice Area(s)

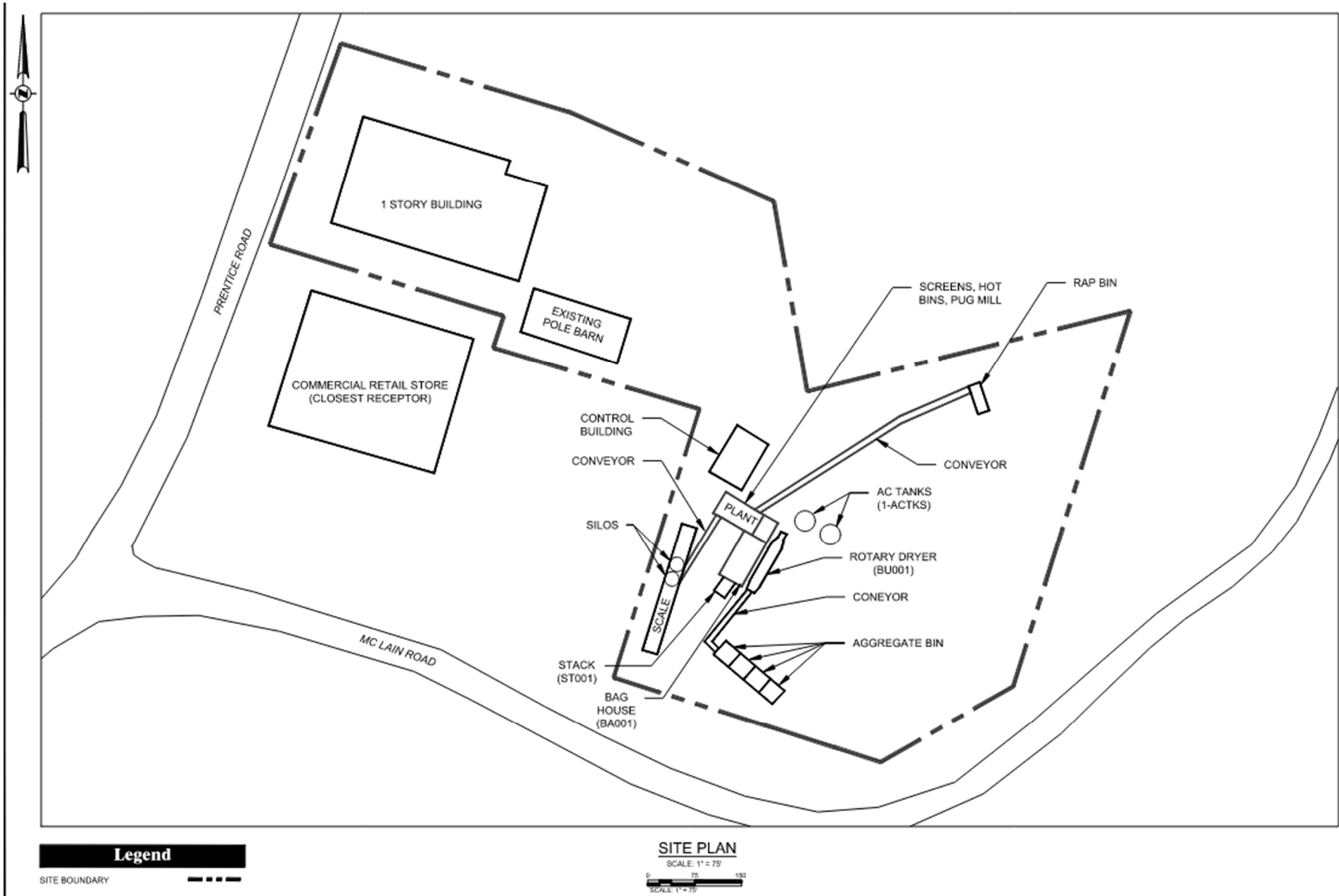


Figure 2. Site Plan

II. PROJECT DESCRIPTION AND PROPOSED ACTION

Project Overview

The applicant proposes to continue operating an existing asphalt plant. To implement the proposed project, the applicant has submitted an application to the New York State Department of Environmental Conservation (NYSDEC) for a state facility permit for the existing asphalt plant at 416 Prentice Rd, Vestal, NY 13850.

Nature of Proposed Project/Action and Purpose

Continue operation of a hot mix asphalt batch plant. 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 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.

Potential Impacts

As an asphalt plant has been in operation at this site for 37 years, there are no identifiable impacts that the proposed action and permitting decision will have on the community or neighborhood.

III. STAKEHOLDER IDENTIFICATION & CONTACT LIST

A contact list consisting of the names, addresses, phone numbers, or email addresses of stakeholders to the proposed action is provided in Appendix A. The contact list includes individuals and organizations with a direct stake in the proposed action and people and individuals and organizations that have expressed interest in the proposed project or similar projects affecting the same neighborhood or community.

The applicant will utilize this contact list to communicate and disseminate information about the proposed project/action and permit application review process to the affected community and stakeholders. At minimum, this includes distribution of the written information and outreach materials described in Section V to inform the community about upcoming public meetings and opportunities for public participation.

The contact list will be reviewed periodically and updated as appropriate throughout the permit application review process. The applicant will update the contact list with any new

stakeholders identified during the public meeting or execution of other PPP components. In addition, individuals and organizations will be added to the contact list upon request. Such requests should be submitted to the project liaison identified in Section IV. Other additions to the contact list may be made at the discretion of the applicant or, at the request of the NYSDEC project manager, in consultation with other NYSDEC staff, as appropriate.

IV. PROJECT LIAISON

A representative from the project team will be available during business hours at:

- Nathan Walz, Safety Director
- 607-729-0498
- permitting@broomebituminous.com
- 416 Prentice Rd, Vestal, NY 13850

Impacted residents and interested stakeholders can contact the project liaison listed above to provide input to the project team, discuss any issues or concerns and/or to ask questions or request information. The project liaison shall respond in a timely manner and in the manner appropriate to question or information request received. The project liaison will be responsible for tracking and documenting public input, inquiries, questions, and information requests received, along with responses provided.

V. PUBLIC OUTREACH ACTIVITIES

The applicant will prepare and provide a fact sheet to the entities listed in Appendix A for posting. The fact sheet will be presented in an easy-to-read, understandable format, using plain language free of legal terminology, and geared towards a non-technical audience

Fact Sheet Preparation and Distribution

Factual information on the proposed project/action, including an overview, purpose statement, and potential impacts, is outlined in the reader-friendly fact sheet shown in Appendix C. In addition, the fact sheet outlines how interested stakeholders can: participate in the permit application review process; access the online document repository to review relevant application and contact the project team to obtain additional information. The fact sheet has been prepared in English and will be translated into [TBD] by a certified translator.

Once the PPP has been approved by NYSDEC the fact sheet will be posted, distributed and available in the online document repository described in Section VI of this document. The fact sheet will be distributed via email, mail and/or hand delivery (door-to-door).

VI. DOCUMENT REPOSITORY

An online document repository has been established for the community and interested stakeholders to access and review information about the project. The online repository available at www.broomebituminous.com/permit will provide information and documents relating to the project and permit application.

The repository will be updated throughout the application process with project-related information and written materials (i.e., application forms and supporting materials, draft permit, fact sheet, statement of basis (where applicable), the Notice of Complete Application provided by the NYSDEC, etc.).

VII. SUBMISSIONS

Final Summary Report and Written Certification

Upon completion of the enhanced public participation plan, the applicant will submit written certification to NYSDEC to certify that it has fully executed and complied with the approved PPP. The certification shall be signed by the applicant, or the applicant's agent, and submitted to NYSDEC prior to a final decision on the application.

As part of the certification, the applicant shall submit a final summary report documenting the implementation of this PPP. The report will summarize the activities that occurred in accordance with the PPP and will identify any substantive concerns raised by stakeholders during the public meeting, or, at any time throughout the permitting process and detail the applicant's response(s) to any such concerns or questions. The applicant will include, or append, any documentation that supports the final summary report, such as: the meeting sign-in sheet(s), record of attendees/participants, meeting presentation, notes or minutes, summary of questions and answers, and copy of newspaper notice or other proof of publication. In addition, the report will identify any changes or modifications to the proposed project that were made or considered by the applicant to address or reduce concerns surrounding the permit application.

The final summary report and written certification will become part of the application record and will be posted to the online document repository so that it is readily available to the public.

APPENDIX A

Contact List

Category	Organization Name	Mailing Address	Phone	Contact Email
Civic / Community	Vestal Public Library	320 Vestal Pkwy E, Vestal, NY 13850	(607) 754-4243	info@vestalpubliclibrary.org
Civic / Community	United Way of Broome County	101 Jensen Rd, Vestal, NY 13850 (Physical) / P.O. Box 550, Binghamton, NY 13902	(607) 240-2000	info@uwbroome.org
Environmental	Broome County Environmental Management Council	c/o Broome County Office Bldg, 60 Hawley St, Binghamton, NY 13901	County liaison phone: (607) 778-2411	bcemc@broomecountyny.gov

APPENDIX B
Virtual Public Meeting Notice
(not required at this time)

APPENDIX C
Fact Sheet
(English and TBD)

State Facility Permit for Existing Asphalt Plant Fact Sheet

- **Project:** New State Facility Permit for an existing Asphalt Plant
- **Applicant:** Broome Bituminous Products, Inc
- **Facility:** Broome Bituminous Products, Inc, 416 Prentice Rd, Vestal, NY 13850
- **NYSDEC Application Number:** TBD
- **A Public Participation Plan (PPP) has been developed in accordance with NYSDEC Commissioner Policy 29, Environmental Justice and Permitting (CP-29)**

What is the Proposed Project?

The applicant proposes to continue operating an existing asphalt plant at 416 Prentice Rd, Vestal, NY 13850. To implement the proposed project, the applicant has submitted an application to the New York State Department of Environmental Conservation (NYSDEC) for a Air State Facility permit for the existing asphalt plant. The purpose of this fact sheet is to inform the public about this proposed project and to involve the community during the NYSDEC permit application review process.

Continue operation of a hot mix asphalt batch plant. 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 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.

Why does Broome Bituminous Products, Inc need to submit an application for an Air State Facility permit?

New York State has changed their laws (6 NYCRR Part 220), regulations and agency guidance such that the current asphalt plant located at 416 Prentice Rd, Vestal NY is being required to change their Air Facility Registration to a State Facility Permit.

There has been no change in the operation of the existing asphalt plant.

How might the project affect the surrounding community?

There is no impact to the surrounding community as this is just an adjustment to an existing asphalt plant permitting.

How can I participate in the permit review process?

- Ask questions, express concerns, provide input or submit by comments in writing, by phone or email to the project contact person identified below.
Nathan Walz, Safety Director
416 Prentice Rd, Vestal, NY 13850
607-729-0498
permitting@broomebituminous.com

Where can I get more information about the proposed project?

- Visit the online document repository at: www.broomebituminous.com/permitting to obtain application materials, relevant documents, and information about the project.
- Contact Nathan Walz by phone at: 607-729-0498, by email at: permitting@broomebituminous.com or in writing at: PO Box 354, Vestal, NY 13851 for information on the project or to find out about the status of the permit application and public comment period.

Who is responsible for reviewing the Permit Application?

- NYSDEC Region 7 Headquarters, 5786 Widewaters Parkway, Syracuse, NY 13214 is responsible for reviewing and issuing the required permits. Tel: (315-426-7438); email: dep.r7@dec.ny.gov



Appendix I

Full Environmental Assessment Form



BBP2601– ASF PERMIT APPLICATION BBP DEC ID 7-0348-00009-

P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, D.P.C.
631.589.6353 • WWW.PWGROSSER.COM • PWGC.INFO@PWGROSSER.COM
BOHEMIA • MANHATTAN • SARATOGA SPRINGS • MONTICELLO • SYRACUSE

Full Environmental Assessment Form
Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either “Yes” or “No”. If the answer to the initial question is “Yes”, complete the sub-questions that follow. If the answer to the initial question is “No”, proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: Broome Bituminous Products - Existing Batch Asphalt Plant Facility		
Project Location (describe, and attach a general location map): 416 Prentice Road, Town of Vestal, Broome County, NY, 13850 (Tax ID No. 158.07-2-7, 158.07-2-3, & 158.07-2-2)		
Brief Description of Proposed Action (include purpose or need): The proposed action includes an application for coverage under a New York State Department of Environmental Conservation (NYSDEC) Air State Facility (ASF) permit at a 21.64±-acre site located along the east side of Prentice Road (the "subject property"). The subject property operates as a hot mix asphalt batching plant facility which has operated at this location for approximately 37 years. No changes are proposed to the existing site operations as part of the permit application.		
Name of Applicant/Sponsor: Broome Bituminous Products, Inc	Telephone: 607-729-0498	
	E-Mail: dgates@broomebituminous.com	
Address: 416 Prentice Road		
City/PO: Vestal	State: NY	Zip Code: 13850
Project Contact (if not same as sponsor; give name and title/role): Nathan Walz, Safety Director	Telephone: 607-729-0498	
	E-Mail:	
Address: 416 Prentice Road		
City/PO: Vestal	State: NY	Zip Code: 13850
Property Owner (if not same as sponsor):	Telephone:	
	E-Mail:	
Address:		
City/PO:	State:	Zip Code:

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. (“Funding” includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Counsel, Town Board, ☐ Yes ☒ No or Village Board of Trustees		
b. City, Town or Village ☐ Yes ☒ No Planning Board or Commission		
c. City, Town or ☐ Yes ☒ No Village Zoning Board of Appeals		
d. Other local agencies ☐ Yes ☒ No		
e. County agencies ☐ Yes ☒ No		
f. Regional agencies ☐ Yes ☒ No		
g. State agencies ☒ Yes ☐ No	NYSDEC - Air State Facility Permit	Feb 2026
h. Federal agencies ☐ Yes ☒ No		
i. Coastal Resources. i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway? ☐ Yes ☒ No ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program? ☐ Yes ☒ No iii. Is the project site within a Coastal Erosion Hazard Area? ☐ Yes ☒ No		

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? ☐ Yes ☒ No

- If Yes, complete sections C, F and G.
- If No, proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? ☒ Yes ☐ No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? ☐ Yes ☒ No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) ☒ Yes ☐ No

If Yes, identify the plan(s):

NYS Major Basins: Upper Susquehanna

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? ☐ Yes ☒ No

If Yes, identify the plan(s):

C.3. Zoning

a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. ☒ Yes ☐ No
If Yes, what is the zoning classification(s) including any applicable overlay district?

The subject property is located within the Industrial (I) Zoning District.

b. Is the use permitted or allowed by a special or conditional use permit? ☒ Yes ☐ No

c. Is a zoning change requested as part of the proposed action? ☐ Yes ☒ No

If Yes,

i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? Vestal Central School District

b. What police or other public protection forces serve the project site?

Vestal Police Department and New York State Police

c. Which fire protection and emergency medical services serve the project site?

Vestal Fire Department and Vestal Emergency Squad

d. What parks serve the project site?

N/A - the site is an existing hot mix asphalt batching plant facility and the proposed action includes an application for coverage under a NYSDEC ASF permit with no change to existing operations proposed.

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)? Industrial - Air State Facility Permit for existing hot mix asphalt batching plant. No change to existing operations.

b. a. Total acreage of the site of the proposed action? 21.64± acres

b. Total acreage to be physically disturbed? 0 acres

c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 21.64± acres

c. Is the proposed action an expansion of an existing project or use? ☐ Yes ☒ No *

i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? ☐ Yes ☒ No

If Yes,

i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)

ii. Is a cluster/conservation layout proposed? ☐ Yes ☐ No

iii. Number of lots proposed? _____

iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will the proposed action be constructed in multiple phases? ☐ Yes ☐ No N/A**

i. If No, anticipated period of construction: _____ months

ii. If Yes:

- Total number of phases anticipated _____
- Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
- Anticipated completion date of final phase _____ month _____ year

• Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____

*The proposed action includes an application for coverage under a NYSDEC ASF permit with no change to existing operations/use proposed.

**The proposed action does not include construction and is the continuation of the existing asphalt batch plant facility.

f. Does the project include new residential uses? ☐ Yes ☒ No If Yes, show numbers of units proposed.				
	<u>One Family</u>	<u>Two Family</u>	<u>Three Family</u>	<u>Multiple Family (four or more)</u>
Initial Phase	_____	_____	_____	_____
At completion	_____	_____	_____	_____
of all phases	_____	_____	_____	_____

g. Does the proposed action include new non-residential construction (including expansions)? ☐ Yes ☒ No If Yes,	
i. Total number of structures _____ ii. Dimensions (in feet) of largest proposed structure: _____ height; _____ width; and _____ length iii. Approximate extent of building space to be heated or cooled: _____ square feet	

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? ☐ Yes ☒ No If Yes,	
i. Purpose of the impoundment: _____ ii. If a water impoundment, the principal source of the water: ☐ Ground water ☐ Surface water streams ☐ Other specify: _____ iii. If other than water, identify the type of impounded/contained liquids and their source. _____ iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete): _____ _____	

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? ☐ Yes ☒ No * (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite) If Yes:	
i. What is the purpose of the excavation or dredging? _____ ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site? • Volume (specify tons or cubic yards): _____ • Over what duration of time? _____ iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them. _____ _____ iv. Will there be onsite dewatering or processing of excavated materials? ☐ Yes ☐ No If yes, describe. _____ _____ v. What is the total area to be dredged or excavated? _____ acres vi. What is the maximum area to be worked at any one time? _____ acres vii. What would be the maximum depth of excavation or dredging? _____ feet viii. Will the excavation require blasting? ☐ Yes ☐ No ix. Summarize site reclamation goals and plan: _____ _____ _____	

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? ☐ Yes ☒ No If Yes:	
i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____ _____	

*The proposed action includes an application for coverage under a NYSDEC ASF permit with no change to existing operations proposed.

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

iii. Will the proposed action cause or result in disturbance to bottom sediments? ☐ Yes ☐ No
If Yes, describe: _____

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? ☐ Yes ☐ No
If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____
- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

c. Will the proposed action use, or create a new demand for water? ☐ Yes ☒ No *

If Yes:

i. Total anticipated water usage/demand per day: _____ gallons/day

ii. Will the proposed action obtain water from an existing public water supply? ☐ Yes ☐ No
If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? ☐ Yes ☐ No
- Is the project site in the existing district? ☐ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☐ No
- Do existing lines serve the project site? ☐ Yes ☐ No

iii. Will line extension within an existing district be necessary to supply the project? ☐ Yes ☐ No
If Yes:

- Describe extensions or capacity expansions proposed to serve this project: _____
- Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? ☐ Yes ☐ No
If Yes:

- Applicant/sponsor for new district: _____
- Date application submitted or anticipated: _____
- Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? ☐ Yes ☒ No *

If Yes:

i. Total anticipated liquid waste generation per day: _____ gallons/day

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): _____

iii. Will the proposed action use any existing public wastewater treatment facilities? ☐ Yes ☐ No
If Yes:

- Name of wastewater treatment plant to be used: _____
- Name of district: _____
- Does the existing wastewater treatment plant have capacity to serve the project? ☐ Yes ☐ No
- Is the project site in the existing district? ☐ Yes ☐ No
- Is expansion of the district needed? ☐ Yes ☐ No

*The proposed action includes an application for coverage under a NYSDEC ASF permit with no change to existing operations proposed.

• Do existing sewer lines serve the project site? _____ • Will a line extension within an existing district be necessary to serve the project? _____ If Yes: • Describe extensions or capacity expansions proposed to serve this project: _____ _____ _____	☐ Yes ☐ No ☐ Yes ☐ No	
iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? _____ If Yes: • Applicant/sponsor for new district: _____ • Date application submitted or anticipated: _____ • What is the receiving water for the wastewater discharge? _____	☐ Yes ☐ No	
v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans): _____ _____ _____		
vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____ _____ _____		
e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? _____ If Yes: i. How much impervious surface will the project create in relation to total size of project parcel? _____ Square feet or _____ acres (impervious surface) _____ Square feet or _____ acres (parcel size) ii. Describe types of new point sources. _____ iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)? _____ _____ • If to surface waters, identify receiving water bodies or wetlands: _____ _____ • Will stormwater runoff flow to adjacent properties? _____	☐ Yes ☒ No ☐ Yes ☐ No ☐ Yes ☐ No	
iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? _____		
f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? _____ If Yes, identify: i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles) Existing trucks - no change proposed _____ ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers) N/A - the proposed action does not include construction and is the continuation of the existing asphalt batch plant facility. _____ iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation) Existing stationary sources include the following with no change proposed: batch asphalt plant, asphalt cement tanks, storage SILOs and hot oil system (exempt) _____	☒ Yes ☐ No	
g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? _____ If Yes: i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) _____ ii. In addition to emissions as calculated in the application, the project will generate: • _____ 3,929±* Tons/year (short tons) of Carbon Dioxide (CO₂) • _____ N/A Tons/year (short tons) of Nitrous Oxide (N₂O) • _____ N/A Tons/year (short tons) of Perfluorocarbons (PFCs) • _____ N/A Tons/year (short tons) of Sulfur Hexafluoride (SF₆) • _____ N/A Tons/year (short tons) of Carbon Dioxide equivalent of Hydrofluorocarbons (HFCs) • _____ 0.8±* Tons/year (short tons) of Hazardous Air Pollutants (HAPs)		☒ Yes ☐ No ☐ Yes ☒ No

*Due to changes in 6 NYCRR 220, the existing asphalt batch plant facility now requires coverage under the ASF permit. However, no changes to existing operations are proposed. The emissions relate to existing operations.

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? ☐ Yes ☒ No If Yes: i. Estimate methane generation in tons/year (metric): _____ ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____			
i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? ☒ Yes ☐ No If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): Existing fugitive dust from on-site roadways and on-site asphalt plant. Existing dust suppression measures include spraying of water.			
j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? ☐ Yes ☒ No If Yes: i. When is the peak traffic expected (Check all that apply): ☐ Morning ☐ Evening ☐ Weekend ☐ Randomly between hours of _____ to _____. ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____ iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____ iv. Does the proposed action include any shared use parking? ☐ Yes ☐ No v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe: _____ vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? ☐ Yes ☐ No vii. Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? ☐ Yes ☐ No viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? ☐ Yes ☐ No			
k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? ☐ Yes ☒ No If Yes: i. Estimate annual electricity demand during operation of the proposed action: _____ ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other): _____ iii. Will the proposed action require a new, or an upgrade, to an existing substation? ☐ Yes ☐ No			
l. Hours of operation. Answer all items which apply. <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> i. During Construction: • Monday - Friday: _____ N/A* • Saturday: _____ N/A* • Sunday: _____ N/A* • Holidays: _____ N/A* </td> <td style="width: 50%; vertical-align: top;"> ii. During Operations: • Monday - Friday: _____ 7:00am-4:00pm** • Saturday: _____ 7:00am-4:00pm** • Sunday: _____ N/A • Holidays: _____ N/A </td> </tr> </table>		i. During Construction: • Monday - Friday: _____ N/A* • Saturday: _____ N/A* • Sunday: _____ N/A* • Holidays: _____ N/A*	ii. During Operations: • Monday - Friday: _____ 7:00am-4:00pm** • Saturday: _____ 7:00am-4:00pm** • Sunday: _____ N/A • Holidays: _____ N/A
i. During Construction: • Monday - Friday: _____ N/A* • Saturday: _____ N/A* • Sunday: _____ N/A* • Holidays: _____ N/A*	ii. During Operations: • Monday - Friday: _____ 7:00am-4:00pm** • Saturday: _____ 7:00am-4:00pm** • Sunday: _____ N/A • Holidays: _____ N/A		

*The proposed action does not include construction and is the continuation of the existing asphalt batch plant facility.

**It is important to note that the facility is permitted to operate from 6:00am-6:00pm; however, the average hours of operation are typically 7:00am-4:00pm. Hour may be extended between 6:00am-6:00pm to meet client and contract needs. Additionally, operations are seasonal from April to November.

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? ☐ Yes ☒ No If yes: i. Provide details including sources, time of day and duration: _____ _____	
ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? ☐ Yes ☐ No Describe: _____ _____	
n. Will the proposed action have outdoor lighting? ☐ Yes ☒ No * If yes: i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures: _____ _____	
ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? ☐ Yes ☐ No Describe: _____ _____	
o. Does the proposed action have the potential to produce odors for more than one hour per day? ☐ Yes ☒ No ** If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: _____ _____ _____	
p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? ☐ Yes ☒ No *** If Yes: i. Product(s) to be stored _____ ii. Volume(s) _____ per unit time _____ (e.g., month, year) iii. Generally, describe the proposed storage facilities: _____ _____	
q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? ☐ Yes ☒ No If Yes: i. Describe proposed treatment(s): _____ _____ _____	
ii. Will the proposed action use Integrated Pest Management Practices? ☐ Yes ☐ No	
r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? ☐ Yes ☒ No **** If Yes: i. Describe any solid waste(s) to be generated during construction or operation of the facility: • Construction: _____ tons per _____ (unit of time) • Operation : _____ tons per _____ (unit of time) ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste: • Construction: _____ • Operation: _____ iii. Proposed disposal methods/facilities for solid waste generated on-site: • Construction: _____ • Operation: _____	

*The site contains existing exterior lighting. The proposed action includes an application for coverage under a NYSDEC ASF permit with no change to existing operations proposed including no change to existing exterior lighting.

**As the proposed action includes an application for coverage under a NYSDEC ASF permit with no change to existing operations, there would be no change to odors produced at the site.

***According to the applicant, there are currently six (6) in-service above ground storage tanks for petroleum bulk storage (PBS). As the proposed action includes an application for coverage under a NYSDEC ASF permit with no change to existing operations proposed, no new PBS tanks are proposed.

****As the proposed action includes an application for coverage under a NYSDEC ASF permit with no change to existing operations, there would be no increase in solid waste generation.

s. Does the proposed action include construction or modification of a solid waste management facility? ☐ Yes ☒ No

If Yes:

i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or other disposal activities): _____

ii. Anticipated rate of disposal/processing:

- _____ Tons/month, if transfer or other non-combustion/thermal treatment, or
- _____ Tons/hour, if combustion or thermal treatment

iii. If landfill, anticipated site life: _____ years

t. Will the proposed action at the site involve the commercial generation, treatment, storage, or disposal of hazardous waste? ☐ Yes ☒ No

If Yes:

i. Name(s) of all hazardous wastes or constituents to be generated, handled or managed at facility: _____

ii. Generally describe processes or activities involving hazardous wastes or constituents: _____

iii. Specify amount to be handled or generated _____ tons/month

iv. Describe any proposals for on-site minimization, recycling or reuse of hazardous constituents: _____

v. Will any hazardous wastes be disposed at an existing offsite hazardous waste facility? ☐ Yes ☐ No

If Yes: provide name and location of facility: _____

If No: describe proposed management of any hazardous wastes which will not be sent to a hazardous waste facility: _____

E. Site and Setting of Proposed Action

E.1. Land uses on and surrounding the project site

a. Existing land uses.

i. Check all uses that occur on, adjoining and near the project site.

☐ Urban ☒ Industrial ☒ Commercial ☐ Residential (suburban) ☐ Rural (non-farm)

☐ Forest ☐ Agriculture ☒ Aquatic ☒ Other (specify): Transportation (Railroad tracks)

ii. If mix of uses, generally describe:

The subject property is generally industrial with forested areas and a surface water feature. The surrounding area includes industrial, commercial, and transportation land uses, as well as forested areas and surface water features.

b. Land uses and covertypes on the project site.

Land use or Covertypes	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	0.50±	0.50±	0
• Forested	9.85±	9.85±	0
• Meadows, grasslands or brushlands (non-agricultural, including abandoned agricultural)	0	0	0
• Agricultural (includes active orchards, field, greenhouse etc.)	0	0	0
• Surface water features (lakes, ponds, streams, rivers, etc.)	0.09±	0.09±	0
• Wetlands (freshwater or tidal)	0	0	0
• Non-vegetated (bare rock, earth or fill)	11.20±	11.20±	0
• Other Describe: _____	0	0	0

c. Is the project site presently used by members of the community for public recreation? ☐ Yes ☒ No
i. If Yes: explain: _____

d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? ☐ Yes ☒ No
If Yes,
i. Identify Facilities: _____

e. Does the project site contain an existing dam? ☐ Yes ☒ No
If Yes:
i. Dimensions of the dam and impoundment:
• Dam height: _____ feet
• Dam length: _____ feet
• Surface area: _____ acres
• Volume impounded: _____ gallons OR acre-feet
ii. Dam's existing hazard classification: _____
iii. Provide date and summarize results of last inspection: _____

f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility? ☒ Yes ☐ No
If Yes:
i. Has the facility been formally closed? ☐ Yes ☒ No
• If yes, cite sources/documentation: _____
ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:
The parcel to the adjacent southeast (Tax Map No. 158.07-2-15) across the railroad tracks contains an inactive solid waste landfill.
iii. Describe any development constraints due to the prior solid waste activities: _____
N/A - the site is located across the railroad tracks and does not impact current site operations. The proposed action includes an application for coverage under a NYSDEC ASF permit with no change to existing operations proposed.

g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? ☐ Yes ☒ No
If Yes:
i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred: _____

h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? ☐ Yes ☒ No
If Yes:
i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: ☐ Yes ☒ No
☐ Yes – Spills Incidents database Provide DEC ID number(s): _____
☐ Yes – Environmental Site Remediation database Provide DEC ID number(s): _____
☐ Neither database
ii. If site has been subject of RCRA corrective activities, describe control measures: _____
iii. Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? ☒ Yes ☐ No
If yes, provide DEC ID number(s): 704002, 704009B, V00138, 704038, 704003
iv. If yes to (i), (ii) or (iii) above, describe current status of site(s): _____

According to the NYSDEC DECinfo Locator, the subject property is located within 2,000 feet to five (5) hazardous waste remediation sites: (1) #704002 Robintech, (2) #704003 Monarch Chemical, (3) #V00138 409 Commerce Road, (4) #704003 Monarch Chemical, and (5) #704038 Endicott Area Wide-Investigation. See below.

- (1) #704002 Robintech: The Robintech site is an active 12.7-acre Class 04 State Superfund Program Site located to the adjacent south of the subject property.
(2) #704003 Monarch Chemical: The Monarch Chemical site is an active 1.04-acre Class 3 State Superfund Program site located 550± northwest of the subject property.
(3) #V009B 409 Commerce Road: The 409 Commerce Road site is a closed 1.82-acre Class C Voluntary Cleanup Program Site located 650± feet south of the subject property.
(4) #704009B Vestal Water Supply (Site 4-2): The Vestal Water Supply (Site 4-2) is a closed 1.37-acre Class C State Superfund Program Site located 750± feet northwest of the subject property.
(5) #704038 Endicott Area Wide-Investigation: The Endicott Area Wide-Investigation site is a no-action site located 2,000± feet north of the subject property.

v. Is the project site subject to an institutional control limiting property uses? ☐ Yes ☒ No - If yes, DEC site ID number: _____ - Describe the type of institutional control (e.g., deed restriction or easement): _____ - Describe any use limitations: _____ - Describe any engineering controls: _____ - Will the project affect the institutional or engineering controls in place? ☐ Yes ☐ No - Explain: _____ _____
E.2. Natural Resources On or Near Project Site
a. What is the average depth to bedrock on the project site? _____ >6.5± feet below grade surface
b. Are there bedrock outcroppings on the project site? ☐ Yes ☒ No If Yes, what proportion of the site is comprised of bedrock outcroppings? _____ %
c. Predominant soil type(s) present on project site: Pits, gravel and sand (Pr) 83 % Chenango and Howard gravelly loams (ChA), 0-5% slopes 3 % Cut and fill lands, gravelly materials (Cv) 14 %
d. What is the average depth to the water table on the project site? Average: _____ 80± feet below grade surface
e. Drainage status of project site soils: ☒ Well Drained: _____ 100 % of site ☐ Moderately Well Drained: _____ % of site ☐ Poorly Drained _____ % of site
f. Approximate proportion of proposed action site with slopes: ☒ 0-10%: _____ 100 % of site ☐ 10-15%: _____ % of site ☐ 15% or greater: _____ % of site
g. Are there any unique geologic features on the project site? ☐ Yes ☒ No If Yes, describe: _____ _____
h. Surface water features. i. Does any portion of the project site contain wetlands or other waterbodies (including streams, rivers, ponds or lakes)? ☒ Yes ☐ No ii. Do any wetlands or other waterbodies adjoin the project site? ☒ Yes ☐ No If Yes to either <i>i</i> or <i>ii</i>, continue. If No, skip to E.2.i. iii. Are any of the wetlands or waterbodies within or adjoining the project site regulated by any federal, state or local agency? ☒ Yes ☐ No iv. For each identified regulated wetland and waterbody on the project site, provide the following information: - Streams: Name _____ Classification _____ - Lakes or Ponds: Name <u>Freshwater Pond</u> Classification <u>PUBFx*</u> - Wetlands: Name _____ Approximate Size <u>*see below</u> - Wetland No. (if regulated by DEC) _____

*The EAF Mapper indicates the presence of federal waterbodies on or adjoining the subject property. Review of the NYSDEC Environmental Resource Mapper (ERM) indicates an informational freshwater wetland on the central northern portion of the subject property. Review of the U.S. Fish and Wildlife Services National Wetlands Inventory (NWI) Mapper indicates a 0.09-acre Freshwater Pond classified as Palustrine, Unconsolidated Bottom, Semipermanently Flooded, and Excavated (PUBFx) on the central northern portion of the subject property. This freshwater pond is located in the forested area north of the yard where material is stored and processed and the proposed action includes no change to existing operations.

m. Identify the predominant wildlife species that occupy or use the project site: _____ <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Squirrels _____</td> <td style="width: 33%;">Raccoons _____</td> <td style="width: 33%;">_____</td> </tr> <tr> <td>White-tailed deer _____</td> <td>Rabbits _____</td> <td>_____</td> </tr> <tr> <td>Field rodents _____</td> <td></td> <td></td> </tr> </table>		Squirrels _____	Raccoons _____	_____	White-tailed deer _____	Rabbits _____	_____	Field rodents _____		
Squirrels _____	Raccoons _____	_____								
White-tailed deer _____	Rabbits _____	_____								
Field rodents _____										
n. Does the project site contain a designated significant natural community? ☐ Yes ☒ No If Yes: i. Describe the habitat/community (composition, function, and basis for designation): _____ ii. Source(s) of description or evaluation: _____ iii. Extent of community/habitat: • Currently: _____ acres • Following completion of project as proposed: _____ acres • Gain or loss (indicate + or -): _____ acres										
o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened species? ☐ Yes ☒ No If Yes: i. Species and listing (endangered or threatened): _____ _____ _____										
p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? ☐ Yes ☒ No If Yes: i. Species and listing: _____ _____ _____										
q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? ☐ Yes ☒ No If yes, give a brief description of how the proposed action may affect that use: _____ _____ _____										
E.3. Designated Public Resources On or Near Project Site										
a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? ☐ Yes ☒ No If Yes, provide county plus district name/number: _____										
b. Are agricultural lands consisting of highly productive soils present? ☐ Yes ☒ No i. If Yes: acreage(s) on project site: _____ ii. Source(s) of soil rating(s): _____										
c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? ☐ Yes ☒ No If Yes: i. Nature of the natural landmark: ☐ Biological Community ☐ Geological Feature ii. Provide brief description of landmark, including values behind designation and approximate size/extent: _____ _____ _____										
d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? * ☒ Yes ☐ No If Yes: i. CEA name: <u>Well Field</u> ii. Basis for designation: <u>Primary recharge for well fields</u> iii. Designating agency and date: <u>Date: 9-28-90, Agency: Vestal, Town of</u>										

*The proposed action includes an application for coverage under a NYSDEC ASF permit with no change to existing operations proposed.

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places? ☐ Yes ☒ No	
If Yes: i. Nature of historic/archaeological resource: ☐ Archaeological Site ☐ Historic Building or District ii. Name: _____ iii. Brief description of attributes on which listing is based: _____	
f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory? * ☒ Yes ☐ No	
g. Have additional archaeological or historic site(s) or resources been identified on the project site? ☐ Yes ☒ No	
If Yes: i. Describe possible resource(s): _____ ii. Basis for identification: _____	
h. Is the project site within five miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource? ☒ Yes ☐ No	
If Yes: i. Identify resource: <u>Northside Park, Arnold Park, Confluence Park, Glandale Park, Otsiningo Park</u> ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): <u>All are local town parks of Town of Vestal or City of Binghamton</u> iii. Distance between project and resource: <u>Various distances within 5 miles.</u>	
i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666? ☐ Yes ☒ No	
If Yes: i. Identify the name of the river and its designation: _____ ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? ☐ Yes ☐ No	

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name P.W. Grosser Engineering and Hydrogeologist, DPC as environmental consultant to Broome Bituminous Products, Inc, Date 02/12/2026

Signature Katelyn R. Kaim Title Senior Planner/Project Manager
 Katelyn Kaim, ACIP

*While the entire site is within an archaeologically sensitive area, it has operated as a hot mix asphalt batch plant facility for 37 years and the site has been disturbed with no archaeological resources identified. The proposed action includes an application for coverage under a NYSDEC ASF permit with no change to existing operations proposed.



Disclaimer: The EAF Mapper is a screening tool intended to assist project sponsors and reviewing agencies in preparing an environmental assessment form (EAF). Not all questions asked in the EAF are answered by the EAF Mapper. Additional information on any EAF question can be obtained by consulting the EAF Workbooks. Although the EAF Mapper provides the most up-to-date digital data available to DEC, you may also need to contact local or other data sources to confirm data provided by the Mapper or to obtain data not provided by the Mapper.



B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook.
C.2.b. [Special Planning District - Name]	NYS Major Basins:Upper Susquehanna
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	Yes
E.1.h.iii [Within 2,000' of DEC Remediation Site - DEC ID]	704002, 704009B, V00138, 704038, 704003
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.2.h.ii [Surface Water Features]	Yes - Digital mapping information on local, New York State, and federal wetlands and waterbodies is known to be incomplete. Refer to the EAF Workbook.
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local, New York State, and federal wetlands and waterbodies is known to be incomplete. Refer to the EAF Workbook.
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.

E.2.j. [100 Year Floodplain]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.2.k. [500 Year Floodplain]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.2.l. [Aquifers]	Yes
E.2.l. [Aquifer Names]	Principal Aquifer, Primary Aquifer, Sole Source Aquifer Names:Clinton Street Ballpark SSA
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	No
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	Yes
E.3.d [Critical Environmental Area - Name]	Well Field
E.3.d.ii [Critical Environmental Area - Reason]	Primary recharge for well fields
E.3.d.iii [Critical Environmental Area – Date and Agency]	Date:9-28-90, Agency:Vestal, Town of
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No



 Subject Property

All boundaries are approximate
Source: Google Earth, 2026

Site Location Map

416 Prentice Road
Town of Vestal
Broome County

