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Hanson Aggregates Pennsylvania LLC  
7660 Imperial Way  
Allentown, PA 18195-1040  
Tel 610-366-4819  
Fax 610-871-5994

March 18, 2019

Michael J. Menghini  
Pennsylvania Department of Environmental Protection  
Pottsville District Mining Office  
5 West Laurel Boulevard  
Pottsville, PA 17901-2454

**Re: Rock Hill Quarry – Revised SMP Modules 16 & 17  
SMP No. 7974SM1  
East Rockhill Township  
Bucks County, Pennsylvania**

Dear Mr. Menghini:

Hanson Aggregates Pennsylvania LLC (Hanson) has prepared revised Module 16 – Large Noncoal Blast Plan and revised Module 17 – Air Pollution and Noise Control Plan. The original and two (2) copies of each are attached for your review and approval.

Please feel free to contact me at (610) 366-4819 should you wish to discuss the submission or require additional information.

Sincerely,

A handwritten signature in blue ink, appearing to read "AJG", is written over a light blue horizontal line.

Andrew J. Gutshall, P.G.  
Area Environmental Manager

encl: Module 16: Large Noncoal Blast Plan  
Module 17: Air Pollution and Noise Control Plan

cc: Gary Latsha, PADEP – Pottsville DMO (e-mail only)  
Michael P. Kutney, P.G., PADEP – Pottsville DMO (e-mail only)  
Richard E. Tallman, E.I.T., PADEP – Pottsville DMO (e-mail only)  
Amiee Bollinger, PADEP – Pottsville DMO (e-mail only)  
Mark E. Kendrick, Hanson – Allentown (e-mail only)  
Timothy J. Poppenberg, Hanson – Allentown (e-mail only)  
Matthew S. Burns, Esq., Hanson – Allentown (e-mail only)  
Curt Mitchell, R.E. Pierson (e-mail only)  
Shane LaGray, Maine Drilling & Blasting (e-mail only)  
Marianne Morano, East Rockhill Township (e-mail only)  
Environmental File

### Module 16: Large Noncoal Blast Plan

[Chapter 211/§ 77.561/77.562/77.563/77.564]

- New
- Revised

Permittee Hanson Aggregates PA LLC  
 Permit No. 7974SM1  
 Mine Name Rock Hill Quarry  
 County Bucks  
 Township East Rockhill

An application for proposed blasting shall contain a blasting plan for the proposed permit area, explaining how the applicant intends to comply with §§ 77.561-77.565 (relating to use of explosives) and including the following; drilling patterns, including size, number, depths and spacing of holes, charge and packing of holes, types of initiation and detonation controls, sequence and timing of firing holes, and scaled distance. Persons responsible for blasting operations at a blasting site shall be familiar with the blasting plan and site-specific performance standards (25 Pa. Code Chapter 77.453).

A permit issued under the Noncoal Surface Mining and Conservation and Reclamation Act (52 P. S. §§ 3301-3326), and the regulations promulgated thereunder (25 Pa. Code Chapter 77), authorizing blasting activity shall act as a blasting activity permit issued under 25 Pa. Code Chapter 211. An application for a blasting activity permit shall be prepared by a blaster and shall include information needed by the Department to determine compliance with applicable laws and regulations and conditions necessary to ensure that the proposed blasting activity complies with the applicable statutes and 25 Pa. Code Chapter 211. (25 Pa. Code Chapter 211.121, 25 Pa. Code Chapter 211.124).

**Sections 16.1 through 16.11 and Sections 16.13 through 16.17 must be submitted with the permit application. Section 16.12 (relating to public notice of blasting schedule) must be submitted prior to blast plan approval. There shall be no blasting until a blast plan has been approved by the Department.**

**There is a fee required under 25 PA Code Chapter 77.106 for each blast plan application. The fee is \$475. Is the fee being submitted with the application?**

- Yes
- No

**16.1a Blast Loading Plan 1 (77.453)**

	Hole DIA.	MAX # HOLES	MAX # ROWS	BURDEN		SPACING		HOLE DEPTH		STEMMING	
				MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	TYPE
A	5"	150	10	6	12	6	16	10	65	7	Clean Crushed Stone
B	5.5"	150	10	6	12	6	16	10	65	7	Clean Crushed Stone
C	6"	100	10	6	14	6	18	10	65	7	Clean Crushed Stone
D	6.5"	100	10	6	15	6	18	10	65	7	Clean Crushed Stone
E											

Maximum explosives weight per delay (less than 8ms) 1100 Minimum Scaled Distance 35

Method of blast initiation Electric  Non-Electric  Other   
 Explain Other Electronic

**Comments:**

A	Broad parameters are used to include production, overburden, development and secondary blasting. Maximum number of rows (10) respective to burden is requested to include ramp or other development blasting. Holes 10' to 15' deep will be a min. of 6' of stemming. Holes 16' to 35' deep will be a min. of 7' of stemming. Holes 36' to 45' deep will be a min. of 7' of stemming. holes 46' to 65' deep will be a min. of 7" of stemming.
B	Broad parameters are used to include production, overburden, development and secondary blasting. Maximum number of rows (10) respective to burden is requested to include ramp or other development blasting. Holes 10' to 15' deep will be a min. of 6' of stemming. Holes 16' to 35' deep will be a min. of 7' of stemming. Holes 36' to 45' deep will be a min. of 7' of stemming. holes 46' to 65' deep will be a min. of 7' of stemming.
C	Broad parameters are used to include production, overburden, development and secondary blasting. Maximum number of rows (10) respective to burden is requested to include ramp or other development blasting. Holes 10' to 15' deep will be a min. of 6' of stemming. Holes 16' to 35' deep will be a min. of 7' of stemming. Holes 36' to 45' deep will be a min. of 7' of stemming. holes 46' to 65' deep will be a min. of 7' of stemming.
D	Clean Crushed Stone to be used for all stemming. Stemming material should not contain fine material such as drill cuttings or 'fines'.  Additionally, any fines or drill cuttings produced shall be removed from the blast area.
E	Prior to loading, shot area (both blast holes and laydown area) must be watered down to limit dust from blast.  * See Module 17.2 for additional measures, if deemed necessary by the Department.

**16.1b Blast Loading Plan 2 (77.453)**

	Hole DIA.	MAX # HOLE S	MAX # ROW S	BURDEN		SPACING		HOLE DEPTH		STEMMING	
				MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	TYPE
A	3	150	10	5	10	5	12	10	50	5	Clean Crushed Stone
B	3.5	150	10	5	10	5	12	10	50	6	Clean Crushed Stone
C	4	150	10	5	12	5	15	10	50	6	Clean Crushed Stone
D	4.5	150	10	5	12	5	15	10	50	6	Clean Crushed Stone
E											

Maximum explosives weight per delay (less than 8ms) 500 Minimum Scaled Distance 50

Method of blast initiation Electric  Non-Electric  Other   
 Explain Other Electronic

**Comments:**

A	<p>This pattern and bit size will be utilized when blasting for development work.                      Holes 10' to 15' deep will be a min. of 6' of stemming.                      Holes 16' to 35' deep will be a min. of 7' of stemming.</p>
B	<p>Hole size and pattern to be implemented as certain development needs arise. This will help with keeping the blast control.                      Holes 10' to 15' deep will be a min. of 6' of stemming.                      Holes 16' to 35' deep will be a min. of 7' of stemming.</p>
C	<p>Hole size and pattern to be implemented as certain development needs arise. This will aid in control of the blast when blasting shallow holes.                      Holes 10' to 15' deep will be a min. of 6' of stemming.                      Holes 16' to 35' deep will be a min. of 7' of stemming.</p>
D	<p>Clean Crushed Stone to be used for all stemming. Stemming material should not contain fine material such as drill cuttings or 'fines'.                       Additionally, any fines or drill cuttings produced shall be removed from the blast area.</p>
E	<p>Prior to loading, shot area (both blast holes and laydown area) must be watered down to limit dust from blast.                       * See Module 17.2 for additional measures, if deemed necessary by the Department.</p>

**16.2 Peak Particle Velocity and Airblast Limits (211.151 (c),(d))**

Blasts shall be designed and conducted to meet the maximum allowable peak particle velocity indicated by Figure 1 of 25 PA Code Chapter 211.151 (c) and not exceed the noise levels specified in Table 1 of 25 PA Code Chapter 211.151 (d) at the closest building not owned or leased by the permittee or its customer.

The Department may establish an alternative peak particle velocity or airblast level if it determines that an alternative standard is appropriate or if the owner and lessee, if leased to another party, of a structure located on the permit area have each signed a waiver releasing the vibration limit. The waiver shall be clear, knowing and specific. (attachment(s) **NOTE: Additional review time will be necessary if the applicant submits a waiver for an alternative peak particle or airblast limit at a structure.**

**16.3 Will the sequence and timing of hole detonation be determined by considering factors such as geology, direction and proximity of homes or other structures, permit boundaries, or the locations of underground or overhead utilities.**  Yes  No

**16.4 Will the loading of holes be determined by considering factors such as geology, direction and proximity of homes or other structures, permit boundaries, or the locations of underground or overhead utilities.**  Yes  No

**16.5 Blasting near Dwellings, Public Buildings or Schools (77.564(g)(3))**

Will blasting occur within 1,000 feet of any dwelling, public building or school?  Yes  No

Indicate distance to the nearest dwelling or structure, neither owned nor leased by Permittee, from the area where blasting will occur. 1,100 feet

**16.6** If blasting will occur within 1,000 feet of any public building or school, explain how notification required by 25 Pa Code Section 77.564(g)(3) will be made.

N/A

**16.7** Will blasting be conducted within 300 feet of an occupied dwelling? **(77.564(g)(4))**  Yes  No

**16.7a** If blasting is proposed within 300 feet of an occupied dwelling provide a notarized written waiver from the owner each dwelling specifying the distance blasting may occur to the dwelling (**Note:** If the waiver includes an increase in the peak particle velocity limits or in the airblast limits, in 25 Pa Code Section 211.151(c) and (d), the alternative limits must be specified in the waiver). (Attachment) **(77.564(g)(4))**

**16.8** Will blasting will be conducted within 800 feet of any public road? **(77.564(g)(1))**  Yes  No

**16.8a** If blasting will be conducted within 800 feet of any public road describe the precautions that will be taken to protect the travelling public (can be submitted as an attachment): **(77.564(g)(1))**

N/A

**16.9 Blast Area 77.564(d)(1)(77.564(e))**

Describe how the blast area as defined in 25 Pa Code Section 211.101 will be determined, the procedures for notification of all persons who may have access to the blast area, and how the blast area will be secured and safeguarded (can be submitted as an attachment):

All access to the blast area will be blocked and guarded at the time of blast. "Warning, Blast Area" signage to be posted at all times during the loading process.

**16.10 Underground Mines (77.551)**

Will blasting occur within 500 feet to any point over or adjacent to an active or abandoned portion of an active underground mine?  Yes  No

If yes attach completed MSHA form. (**Attachment**)

**16.11 Underground Utility Lines: (211.181-182)**

Will blasting be conducted within 200 of feet Underground Utility Lines?  Yes  No

If underground utilities are located within 200 feet of the area where blasting will occur, attach a copy of the notification sent to the owner(s) (submit as an attachment).

If there are any requests for waiver of any of the provisions of 211.182 attach copies of any agreements with the owner(s) of the utilities (submit as an attachment).

**16.12 Public Notice of Blasting Schedule (77.563)**

Submit the following to the Department prior to the initiation of blasting.

- a) A Copy of the public notice of the blasting schedule that is published in a newspaper of general circulation in the locality of the area where blasting will occur (submit as an attachment)

**Blasting Public Notice already on file at Pottsville District Mining Office**

- b) A List of the Local governments and public utilities that are located within 1,000 feet of the area where blasting will occur, who received copies of the blasting schedule. (**Note:** These shall be sent a copy of the blasting schedule.) (submit as an attachment)

**16.13 Explosive Purchase (211.123)**

Will a blasting contractor conduct blasting at this site?  Yes  No

If no provide the permittee's Explosives Purchase Permit number: PP# \_\_\_\_\_

**16.14 Blast Plan Preparer (211.124(a))**

The PA licensed blaster who prepared this application must print and sign name below. (General or Surface Mining Authorization Only)

Licensed Blaster Jeffrey Magnuson  
Print

Licensed Blaster Jeffrey Magnuson Date 03/14/19 Blaster's license Number BL-9669  
Sign (General or Surface Mining Authorization)

**16.15 Permittee Authorization Representative (77.107)**

The permittee or an authorized representative of the permittee must print and sign name below.

Permittee or Authorized Representative Mark E. Kendrick - Vice President  
Print

Permittee or Authorized Representative  Date 3/19/19  
Sign

**16.16 Map** (attachment-delineates where blasting will occur and the area within 1,000 feet of where blasting will occur.) (If explosives are going to be stored on the mine site, the location of the explosives storage must be included on the map.) **The map should accurately show, at a minimum, permit boundaries, the locations of streams, gas wells and lines, other underground utilities, overhead utilities and the nearest dwellings and other structures. (211.124(7)), (77.454(a)(9))**

**16.17 List of attachments (Check all that apply)**

- Dwelling Waiver
- Road Precaution Description
- Blast Area Security Plan
- MSHA Form
- Utility Notification
- Blast Schedule Public Notice
- Map
- Other \_\_\_\_\_
- Other \_\_\_\_\_

**Department Use Only:**

DEP Blasting Inspector \_\_\_\_\_  
Print

DEP Blasting Inspector \_\_\_\_\_ Date \_\_\_\_\_  
Sign

Recommendation -  Approval  Disapproval

**Comments:**



**Module 17: Air Pollution and Noise Control Plan**  
 [Chapters 121,123,127,129/NSMCRA 3323(a)(3)/§§ 77.455/77.575]

**17.1 Processing Facilities**

- a) Indicate whether or not there are any processing facilities in the permit area. (Key to Exhibit 9) and specify the mineral(s) to be processed.

Type of Processing Facility	YES	NO	If YES: DRY	WET	Minerals/Product
Crushing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Diabase _____
Screening	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Diabase _____
Cleaning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Diabase _____
Stockpiling	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Diabase _____

- b) Describe the processing facilities and the amount of minerals to be processed.

The initial phase of aggregate production will utilize portable non-metallic processing units operating under GP-3/GP-9 authorization from the Pennsylvania Department of Environmental Protection - Southeast Regional Office dated 03/14/2018.

The Plan Approval for a fixed aggregate plant was issued on December 5, 2018 with a maximum production rate of 1,000 tons per hour (tph) and a maximum of 2,800 hours per year. The non-metallic mineral processing plant will consist of a Metso C140 jaw crusher (primary), a 7-ft by 16-ft triple-deck scalping screen, a Metso HP400 cone crusher (secondary), two (2) 8-ft by 24-ft quad-deck screens, a Metso HP400 cone crusher (tertiary), a Metso HP400 cone crusher (quaternary), two (2) additional 8-ft by 24-ft quad-deck screens, a Metso GP300S cone crusher (extra course), a 5-ft by 14-ft double-deck screen, and 35 conveyors.

- c) Provide the date that the DEP Regional Air Quality Office was contacted or, if applicable, provide a copy of the DEP Air Quality Program's determination to grant an exemption from the Air Quality Permit requirements and of any authorizations granted under the Air Quality General Permit for Portable Nonmetallic Mineral Processing Plants (BAQ-GPA/GP-3).

GP3-03-0157 issued on 03/14/2018 - expires 03/14/2023  
 GP9-09-0083 issued on 03/14/2018 - expires 03/14/2023  
 GP9-09-0084 issued on 09/07/2018 - expires 09/07/2023 (associated with HMA Plant)  
 GP13-09-0001 issued on 09/07/2018 - expires 09/07/2023  
 Plan Approval 09-0241 issued December 5, 2018 - expires May 30, 2020  
 [DEP Air Quality Permits included in Attachment 17.1(c)]

**Note:** All crushing and screening of noncoal minerals other than sand and gravel will require a separate Air Quality Permit from the DEP Regional Office Air Quality Program unless that Program makes a determination to grant an exemption. Crushing and/or screening of sand and gravel will require a separate Air Quality Permit from the DEP Regional Office Air Quality Program except for wet sand and gravel operations (screening only) and wet or dry sand and gravel operations (crushing and/or screening) unconsolidated material with a rated capacity of processing less than 150 tons per hour unless that Program makes a determination to grant an exemption. BAQ-GPA/GP-3 may be used for authorizing the construction, operation, and modification of portable nonmetallic mineral processing plants that will be located at the mine site.

- d) Is the processing facility to be operated by the mining permittee? Yes  No   
 If so, will the Air Quality permit be held by the mining permittee or a third party? Permittee  Third Party

**17.2 Air Pollution Control Plan**

Provide a description of the air pollution control plan including what measures will be taken to reduce dust from the following activities:

If necessary, portable water misters will be utilized to control fugitive dust from specific areas/activities (i.e. blasting) at the facility.

- a) Access roads, haul roads and adjoining portions of the public road

Fugitive dust will be controlled utilizing the following measures:

- Internal paved roadways are to be cleaned (as needed) using a water truck and/or street sweeper to control the generation of fugitive dust or to collect accumulated dust and mud, unless weather conditions (e.g. rain/snow) prohibit the use of these control measures.

- As needed, water will be applied to unpaved roads at the facility each operating day through the use of a water truck assigned to the facility unless weather conditions (e.g. rain/snow) prohibit the use of this control measure.
- A facility-wide speed limit of 15 miles per hour (mph) will be posted and enforced to reduce associated fugitive dust emissions. Stone or asphalt paving will be applied to the roadway near the entrance/exit to the facility to reduce fugitive dust emissions.
- Any spillage of stone onto public roads will be removed and the roadway cleaned as soon as practical. All materials will be wetted prior to removal. A street sweeper will be utilized as needed for public roads.
- In addition to water, other dust suppressants approved by the Department may be used to control fugitive dust. Currently, the Department has approved calcium chloride; Ultra Bond 2000 (manufactured by JMG Enterprises - [www.jmgemulsions.com](http://www.jmgemulsions.com)); Pennzsuppress D (manufactured by PennzSuppress - [www.pennzsuppress.com](http://www.pennzsuppress.com)); Coherex and Dustbond (manufactured by Weavertown Oil (distributed by D&D Emulsions). Operator reserves the right to use any additional dust suppressants approved by the Department in the future. See Attachment 17.2(a) for documentation provided by the Department.

b) Truck traffic (including fugitive particulate material from truck loads).

All trucks carrying products from the site are required to tarp their loads prior to exiting the site. A sign will be posted at the entrance/exit gate to the facility reminding drivers of the tarping requirements.

c) Drilling operation.

To control dust, drill rigs will either add water during the drilling process or vent the exhaust through the drill rig's baghouse to minimize fugitive dust emissions.

d) Overburden removal and mineral extraction

Overburden will be removed using heavy construction equipment and be placed in stockpiles. Upon placement, the material will be stabilized with vegetation to prevent erosion by wind or water.

As needed, water will be applied to mineral extraction area (e.g. area where loading haul trucks with shot rock occurs) using the water truck assigned to the facility unless weather conditions (e.g. rain/snow) prohibit the use of this control.

e) Stockpiles (overburden, topsoil, product).

Overburden materials will be stockpiled and stabilized with vegetation to prevent erosion by wind or water.

In accordance with the Pennsylvania Department of Environmental Protection Air Quality Permits, wet suppression (water sprays, etc.) methods will be used to control dust associated with the production of aggregate products. Sufficient moisture should be applied to the aggregate product during production to control fugitive dust emissions during stockpiling.

The height of each stockpile will be maintained so that the top of the pile is accessible to the water sprays from the water truck.

In order to prevent fugitive dust, aggregate that has accumulated near or under process equipment will be cleaned up on a regular basis.

f) Loading and unloading areas.

Sufficient moisture should exist in the stockpiled aggregate products to control dust emissions during loadout. As needed, water should also be applied to the unpaved surfaces in the loading and unloading areas; stockpiles; and any other area where stone is being handled to prevent fugitive dust.

g) Crushing and other processing equipment.

The processing equipment approved under the GP-3 Air Quality Permit and Plan Approval 09-0241 utilizes wet suppression to reduce fugitive emissions during material processing. The wet suppression systems detailed in Plan Approval 09-0241 consist of high pressure water pumps supplying nozzles and multiple manifold spray bars positioned at transfer points, outlets of crushers and the primary dump hopper.

Loaders and hoppers will not be overfilled in order to prevent the spillage of aggregate.

h) Conveyors.

Conveyors associated with the processing equipment will use wet suppression to control fugitive emissions.

The drop heights of stone onto stockpiles or during stone handling operations will be kept to a minimum to prevent fugitive dust.

Activities under 17.2 a) through h) which are addressed and regulated as part of a separate Air Quality Permit do not need to be included in this module. Indicate which activities (or specific aspects of an activity) are addressed under a separate Air Quality Permit.

Site processing activities of bedrock material are addressed under separate Air Quality Permits. See attached.

**17.3 Noise Control**

Describe the measures that will be taken to prevent noise from becoming a public nuisance.

The area between the quarry permit area and all surrounding residences is wooded, consisting of mostly deciduous vegetation. The trees and other vegetation assist in defusing sound.

Aggregate product stockpiles and berms may also shield residences from noise.

Potentially utilize acceptable alternative to standard backup alarms (i.e. multi-frequency, white noise, etc.) if allowable under MSHA regulations.

A steel plate shall be installed in the feed box for the primary crusher to baffle the noise when shot rock is dropped in.

Operator shall comply with the East Rockhill Township Noise Ordinance.

Operator shall install structures (i.e. engineering controls, berms, sound walls, etc.) to mitigate noise as deemed necessary by the Department.

Operator shall conduct an independent noise survey and provide the results to the Department within three (3) months of commencing operation of the 1,000-tph non-metallic mineral processing plant.

## **ATTACHMENT 17.1(c)**

### **Air Quality Permits**

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
FIELD OPERATIONS - BUREAU OF AIR QUALITY

GENERAL PLAN APPROVAL AND GENERAL OPERATING PERMIT  
(BAQ-GPA/GP-3)

In accordance with provisions of the Air Pollution Control Act, the act of January 8, 1960, P.L. 2119, as amended, and after due consideration of an application received under Chapter 127 of the Rules and Regulations of the Department of Environmental Protection, the Department hereby issues this permit for the operation of the air contamination source(s) described below:

Permit No.	GP3-09-0157	Source(s)	1-Sandvik UJ440i Jaw Crusher 1-Mellotts MC300HPCC closed-circuit crusher/screener 1-Sandvik QS331Cone Crusher 1-Sandvik Scalper Screen
Owner	Richard E. Pierson Materials Corporation	Air	
Address	PO Box 714	Cleaning	
	Bridgeport, NJ 08014	Device	
Attention	Curt Mitchell	Location	East Rockhill Quarry
	Facility Director		2055 N. Rockhill Road
			Sellersville (E. Rockhill Twp.), Bucks County

This general Plan Approval and general permit is subject to the attached conditions for Portable Nonmetallic Mineral Processing Plants (BAQ-GPA/GP-3):


This General Permit supersedes GP3-09-0153

**(SEE CONDITIONS ATTACHED)**

Failure to comply with the conditions placed on this permit is a violation of Section 127.444. Violation of this or any other provision of Article III of the Rules and Regulations of the Department of Environmental Protection will result in suspension or revocation of this permit and/or prosecution under Section 9 of the Air Pollution Control Act.

Issued March 14<sup>th</sup>, 2018

Expires March 14<sup>th</sup>, 2023

  
James D. Rebarchak  
Regional Manager  
Air Quality

cc: Central Office  
Administration  
SERO  
Re 30

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
FIELD OPERATIONS - BUREAU OF AIR QUALITY

GENERAL PLAN APPROVAL AND GENERAL OPERATING PERMIT  
(BAQ-GPA/GP-9)

In accordance with provisions of the Air Pollution Control Act, the act of January 8, 1960, P.L. 2119, as amended, and after due consideration of an application received under Chapter 127 of the Rules and Regulations of the Department of Environmental Protection, the Department hereby issues this permit for the operation of the air contamination source(s) described below:

Permit No.	GP9-09-0083	Source(s)	1-Volvo D13, diesel engine, 422-bhp 1-Caterpillar C9, diesel engine, 350-bhp 1-Caterpillar C27, diesel engine, 1093-bhp 1-Caterpillar C4.4, diesel engine, 129-bhp
Owner	Richard E. Pierson Materials Corporation	Air	
Address	PO Box 714 Bridgeport, NJ 08014	Cleaning	
Attention	Curt Mitchell Facility Director	Device	
		Location	East Rockhill Quarry 2055 N. Rockhill Road Sellersville (E. Rockhill Twp.), Bucks County

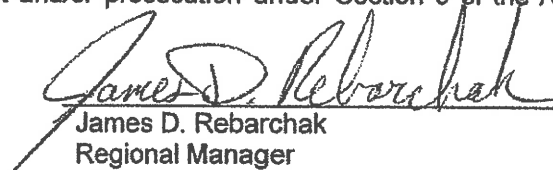
This general Plan Approval and general permit is subject to the attached conditions for Diesel or No. 2 Fuel-Fired Combustion Engine(s) (BAQ-GPA/GP-9):

(1) This General Permit supersedes GP9-09-0080.

**(SEE CONDITIONS ATTACHED)**

Failure to comply with the conditions placed on this permit is a violation of Section 127.444. Violation of this or any other provision of Article III of the Rules and Regulations of the Department of Environmental Protection will result in suspension or revocation of this permit and/or prosecution under Section 9 of the Air Pollution Control Act.

Issued March 14<sup>th</sup>, 2018  
Expires March 14<sup>th</sup>, 2023

  
James D. Rebarchak  
Regional Manager  
Air Quality

cc: Central Office  
Administration  
SERO  
Re 30

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
FIELD OPERATIONS - BUREAU OF AIR QUALITY

**GENERAL PLAN APPROVAL AND GENERAL OPERATING PERMIT  
(BAQ-GPA/GP-9)**

In accordance with provisions of the Air Pollution Control Act, the act of January 8, 1960, P.L. 2119, as amended, and after due consideration of an application received under Chapter 127 of the Rules and Regulations of the Department of Environmental Protection, the Department hereby issues this permit for the operation of the air contamination source(s) described below:

<b>Permit No.</b>	<u>GP9-09-0084</u>	<b>Source(s)</b>	<u>1-Caterpiller C27 diesel engine, 1,071-bhp. 1-Caterpillar C7.1 diesel engine, 268-bhp 1-John Deere 4045HFG93 diesel engine, 134-bhp</u>
<b>Owner</b>	<u>Richard E. Pierson Materials Corporation</u>	<b>Air</b>	<u></u>
<b>Address</b>	<u>426 Swedesboro Rd. Pillesgrove, NJ 08098</u>	<b>Cleaning</b>	<u></u>
		<b>Device</b>	<u></u>
<b>Attention</b>	<u>Curt Mitchell</u>	<b>Location</b>	<u>East Rockhill Quarry</u>
	<u>Facility Director</u>		<u>2055 N. Rockhill Road</u>
			<u>Sellersville (E. Rockhill Twp.), Bucks County</u>

This general Plan Approval and general permit is subject to the attached conditions for Diesel or No. 2 Fuel-Fired Combustion Engine(s) (BAQ-GPA/GP-9): and shall include the following:


- a. Operation for each of the diesel fired engines shall not exceed 1,040 hours per year.
- b. The sulfur content of the fuel oil shall not exceed 0.0015% (by weight) or 15 ppm.

**(SEE CONDITIONS ATTACHED)**

Failure to comply with the conditions placed on this permit is a violation of Section 127.444. Violation of this or any other provision of Article III of the Rules and Regulations of the Department of Environmental Protection will result in suspension or revocation of this permit and/or prosecution under Section 9 of the Air Pollution Control Act.

Issued September 7<sup>th</sup>, 2018

Expires September 7<sup>th</sup>, 2023

  
James D. Rebarchak  
Regional Manager  
Air Quality

cc: Central Office  
Administration  
SERO  
Re 30



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF AIR QUALITY

**GENERAL PLAN APPROVAL AND/OR GENERAL OPERATING PERMIT  
(BAQ-GPA/GP 9)**

**Diesel or No. 2 Fuel-fired Internal Combustion Engines**

**1. Statutory Authority and General Description:**

In accordance with Section 6.1(f) and (g) of the Air Pollution Control Act, 35 P.S. §4006.1, and 25 Pa. Code §§127.611 and 127.631, the Department of Environmental Protection ("Department") hereby issues this general plan approval and/or general operating permit for diesel or No. 2 fuel-fired engine(s) (hereinafter referred to as "Diesel Engine(s) General Permit").

**2. Applicability/Source Coverage Limitations:**

This Diesel Engine(s) General Permit authorizes construction and/or operation of diesel engine(s) including, but not limited to, electrical power generation, rock crushing operation, portable non-metallic processing plants, and those engine(s) used in other processes, which are not covered by other General Permits. GP-11 and GP-12 shall be used for Non-road engines and engines located at coal or coal refuse mining sites respectively.

This Diesel Engine(s) General Permit has been established in accordance with the provisions described in 25 Pa. Code Chapter 127, Subchapter H (relating to general plan approvals and general operating permits). If the diesel or No. 2 oil-fired engine(s) at the facility cannot be regulated by the requirements of this General Permit, a plan approval and/or an operating permit issued in accordance with 25 Pa. Code Chapter 127, Subchapters B (relating to plan approval requirements) and/or Subchapter F (relating to operating permit requirements) will be required, or if the facility is a Title V facility, a Title V operating permit issued in accordance with Subchapters F and G (relating to Title V Operating Permits) will be required.

Plan Approval:

This Diesel Engine(s) General Permit authorizes the construction of internal combustion engine(s) that meet the best available technology (BAT) required under 25 Pa. Code §§127.1 and 127.12(a)(5). For purposes of this Diesel Engine(s) General Permit, BAT for any diesel-fired engine shall include the installation and operation of available control measures that reduce emissions to the limitations described in Condition 7.

Operating Permit:

Once authorization to use this Diesel Engine(s) General Permit is granted, operation may proceed provided that the permittee notifies the Department in accordance with condition 6.

Any diesel-fired engine(s) located at a "Title V facility" as defined in 25 Pa. Code §121.1, shall comply with the requirements of 25 Pa. Code §127.514 (relating to general operating permits at Title V facilities).



**3. Application for Use:**

Any person proposing to operate or construct under this Diesel Engine(s) General Permit shall notify the Department using the Diesel Engine(s) General Permit Application provided by the Department and shall receive prior written approval from the Department as required under 25 Pa. Code §127.621 (relating to application for use of general plan approvals and general operating permits). The Department will take action on the application within 30 days of receipt.

**4. Compliance:**

Any applicant authorized to operate a diesel-fired internal combustion engine(s) under this Diesel Engine(s) General Permit must comply with the terms and conditions of the general permit. The diesel-fired internal combustion engine(s) shall be:

- a. operated in such a manner as not to cause air pollution, as defined in 25 Pa. Code §121.1;
- b. operated and maintained in a manner consistent with good operating and maintenance practices; and
- c. operated and maintained in accordance with the manufacturer's specifications and the applicable terms and conditions of this General Permit.

**5. Permit Modification, Suspension, and Revocation:**

This Diesel Engine(s) General Permit may be modified, suspended, or revoked if the Department determines that the affected diesel-fired internal combustion engines cannot be regulated under this general permit. Authorization to use this Diesel Engine(s) General Permit shall be suspended or revoked if the permittee fails to comply with the applicable terms and conditions of the Diesel Engine(s) General Permit.

The approval herein granted to operate the Diesel Engine(s) General Permit shall be suspended, if, at any time, the permittee causes, permits or allows any modification (as defined in 25 Pa. Code §121.1) without Department approval of the internal combustion engine(s) covered by this General Permit. Upon suspension of the General Permit, the permittee may not continue to operate or use the diesel-fired internal combustion engines. If warranted, the Department will require that the diesel-fired internal combustion engine(s) be permitted under the State Operating Permit and/or Title V Operating Permit requirements in 25 Pa. Code Chapter 127, if appropriate.

**6. Notice Requirements:**

The applications and notifications required by 25 Pa. Code §127.621 shall be submitted to the appropriate Regional Office responsible for issuing general permits in the county in which the diesel-fired internal combustion engine is, or will be, located. As required under 25 Pa. Code §127.621(b), the application shall be either hand delivered or transmitted by certified mail return receipt requested.

The permittee shall not construct a new source under the Diesel Engine(s) General Permit until and unless the appropriate Regional Office is notified that construction is to be conducted and written authorization to construct is received. The fees described in Condition 13 shall accompany the notification of construction.

This Diesel Engine(s) General Permit may be used by a new source owner or operator to authorize operation provided that the Department receives written notice from the permittee of the completion of construction and the intent to commence operation at least five (5) working days prior to completion of construction.

The permittee shall notify the Department, in writing, within 24 hours of the discovery of any malfunction during a business day or by 5:00 p.m. on the first business day after a weekend or holiday of any malfunction of the diesel-fired internal combustion engine(s) which results in, or may result in, the emission of air contaminants in excess of the limitations specified in, or established pursuant to, any applicable rule or regulation contained in 25 *Pa. Code*, Subpart C, Article III (relating to air resources).

#### 7. Emissions Limits for Diesel Engines:

- a. Any diesel engine for which construction commenced prior to July 1, 1972: any diesel engine(s) operated under this general permit may not, at any time, result in the emission of:
  - i. Visible emissions in excess of the limitations specified in 25 *Pa. Code* §123.41 (relating to limitations) as follows:
    - A. Equal to or greater than 20% for a period or periods aggregating more than three (3) minutes in any one (1) hour; and
    - B. Equal to or greater than 60% at any time.
  - ii. Particulate matter in excess of 0.04 grain per dry standard cubic foot (dscf), when the effluent gas volume is less than 150,000 dry standard cubic feet per minute as specified in 25 *Pa. Code* §123.13 (c)(1)(i). Compliance with Condition 7.a.i. will be considered demonstration of compliance with the above particulate matter emission requirement of 0.04 grain per dscf.
  - iii. Sulfur oxides in such a manner that the concentration of sulfur oxides, expressed as SO<sub>2</sub>, in the effluent gas exceeds 500 parts per million by volume, dry basis. Compliance with sulfur content of the diesel fuel of 0.3% (by weight) or less would ensure compliance with this requirement.
  - iv. Odor emissions in such a manner that the malodors are detectable outside the property of the permittee as specified in 25 *Pa. Code* §123.31.
- b. Any diesel engine for which construction commenced on or after July 1, 1972 and best available technology requirements have not been previously established:
  - i. If the diesel-fired internal combustion engine has an engine rating greater than 100 brake horsepower, the engine shall, at a minimum, comply with a Total Hydrocarbon (THC) emission standard of 1.0 gm/bhp-hr.
  - ii. If the diesel-fired internal combustion engine is equal to or greater than 200 brake horsepower and number of hours of operation of engine are equal to or greater than the hours per year listed in the following table, then the engine shall be installed with NO<sub>x</sub> control device with a minimum of 80% NO<sub>x</sub> control efficiency.

**Facilities Located in the "Severe" Ozone Non-Attainment Area**

Engine Rating (BHP) >	Engine Rating (BHP) <	Actual Annual Operating Hours ≥
200	500	2,000
500	1,000	700
1,000	----	500

**Facilities Located in "Moderate" (or lower classified) Ozone Non-Attainment Areas**

Engine Rating (BHP) >	Engine Rating (BHP) ≤	Actual Annual Operating Hours ≥
200	250	7,000
250	500	4,000
500	750	1,700
750	1,000	1,500
1,000	1,500	1,100
1,500	2,000	750
2,000	----	500

If NO<sub>x</sub> emissions from engine(s) are controlled using control technology that uses ammonia or urea as a reagent, then the company shall limit the exhaust ammonia slip at 10 ppmvd, or less corrected at 15% O<sub>2</sub>.

All other diesel engines shall at a minimum comply with the NO<sub>x</sub> emission standard of 6.9 gms/hp-hr.

- iii. If the diesel-fired engine is equal to or greater than 100 brake horsepower and number of hours of operation of engine are equal to or greater than the hours per year listed in the following table, then the engine shall be installed with CO Oxidation Catalyst control device with a minimum of 90% control efficiency.

Engine Rating (BHP) >	Engine Rating (BHP) <	Actual Annual Operating Hours ≥
100	150	4,800
150	250	2,800
250	500	1,850
500	750	1,200
750	1,000	950
1,000	1,500	700
1,500	2,000	670
2,000	2,500	500
2,500	----	100

All other diesel engines shall at a minimum comply with CO emission standard of 2.0 gms/bhp-hr.

- iv. The sulfur content in diesel fuel shall not, at any time exceed 0.3 percent (by weight).
- v. The particulate matter emissions from each engine shall not exceed 0.4 gms/bhp-hr.

- vi. Visible emissions from diesel engine(s) stacks shall not exceed the following limitations:
  - A. Equal to or greater than 10% for a period or periods aggregating more than three (3) minutes in any one (1) hour; and
  - B. Equal to or greater than 30% at any time.
- vii. Odor emissions in such a manner that the malodors are detectable outside the property of the permittee as specified in 25 Pa. Code §123.31.

**8. Performance Testing:**

- a. For a new diesel-fired internal combustion engine installed in accordance with Conditions 2 and 7.b. and which has a rated capacity equal to or less than 500 brake horsepower, vendor guarantees shall be sufficient to fulfill this requirement. However, the Department reserves the right to require an additional verification of emission rates which may include source testing in accordance with applicable provisions of 25 Pa. Code Chapter 139 (relating to sampling and testing) or portable exhaust gas analyzers approved by the Department if the NO<sub>x</sub> emissions from the facility including the proposed diesel engines are equal to or greater than:
  - i. 22.5 tons per year if the facility is located in severe ozone non-attainment areas; and
  - ii. 90 tons per year if the facility is located in any other area than those listed above in 8.a.i.
- b. For a new internal combustion engine installed in accordance with Conditions 2 and 7.b. and which has a rated capacity greater than 500 brake horsepower, within 180 days of receiving authority to construct under this general permit, the permittee shall perform stack testing in accordance with 25 Pa. Code Chapter 139.
- c. In addition to the stack testing required by this condition, within 12 months after the initial stack testing, and annually thereafter, the permittee shall perform NO<sub>x</sub> emissions tests upon each of the respective engines subjected to the BAT as stated in Condition 7.b. herein using a portable analyzer approved by the Department. The Department may alter the frequency of annual portable analyzer tests based on the results. The Department may also waive all or parts of this requirement if the permittee demonstrates compliance, in lieu of testing, through alternate means satisfactory to the Department.
- d. The Department reserves the right to require stack tests in accordance with EPA reference methods should the data from the portable analyzer warrant such tests. The purpose of this testing is to demonstrate compliance with the emission limitations required for new engines.
- e. The Department may accept the vendor guarantees or recent on-site test data on similar engines, or any other means approved by the Department as a verification of NO<sub>x</sub> emission if the NO<sub>x</sub> emissions from a diesel engine located in severe non-attainment area for ozone are less than 2.5 tons per year or 10 tons per year if a diesel engine is located in areas other than severe non-attainment for ozone.
- f. If performance stack tests are required for the demonstration of compliance with applicable emissions limits, the owner or operator of the affected facility shall comply with the following requirements:

- i. Within sixty (60) days after achieving the maximum production rate at which the affected facility will be operated, but no later than one hundred eighty (180) days after the initial startup of the source and the owner or operator shall demonstrate compliance with the applicable emission limits.
- ii. At least sixty (60) days prior to the test, the company shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.
- iii. At least thirty (30) days prior to the test, the Department shall be informed of the date and time of the test.
- iv. Within sixty (60) days after the source test(s), two copies of the complete test report, including all operating conditions, shall be submitted to the Department.

**9. Monitoring, Recordkeeping and Reporting:**

- a. The permittee shall maintain accurate records, which, at a minimum, shall include:
  - i. The number of hours per calendar year that each engine or piece of equipment operated using non-resettable hour meter.
  - ii. The amount of fuel used per calendar year in each engine or piece of equipment.
- b. When a new diesel-fired internal combustion engine is installed in accordance with Conditions 2 and 7.b and is required to conduct a performance test, the permittee shall maintain records or report the following:
  - i. Records including a description of testing methods, results, all engine operating data collected during the tests and a copy of the calculations performed to determine compliance with emission standards.
  - ii. Copies of the report that demonstrates that the engines were operating at rated brake horsepower and rated speed conditions during performance testing.
  - iii. Submittal of reports in accordance with the requirements and schedules outlined in this Diesel Engine(s) General Permit.
- c. These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request. The Department reserves the right to expand the list contained in this condition as it may reasonably prescribe pursuant to the provisions of Section 4 of the Pennsylvania Air Pollution Control Act (35 P. S. §§4004), and as it may deem necessary to determine compliance with any condition contained herein.

**10. Small Sources of NO<sub>x</sub> requirements:**

Each diesel engine rated at greater than 1,000 brake horsepower and located in severe non-attainment area for ozone shall comply with small sources of NO<sub>x</sub> requirements as established in 25 Pa. Code §§129.203 through 129.205.

**11. Interstate Pollution Transport Reduction Requirements:**

Each diesel engine rated equal to or greater than 3,000 brake horsepower that emitted greater or equal to 153 tons of NO<sub>x</sub> from May 1 through September 30 in 1995 or from May 1 through September 30 of any year thereafter shall comply with the applicable requirements as established in 25 Pa. Code §§145.11 through 145.115.

**12. Term of Authorization to Use Diesel Engine(s) General Permit:**

Authority to operate under this Diesel Engine(s) General Permit is granted for a fixed term of five (5) years. The Department will notify each applicant, by letter, when authority to operate under this general permit is granted.

Authority to operate Diesel Fired Engine(s) required to operate any portable nonmetallic mineral processing plants under this Diesel Engine(s) General Permit is granted for no longer than 24 months if it is temporarily located at construction sites. Authority to operate the same plant beyond 24 months would require a new authorization, in writing, from the Department.

**13. Permit Fees:**

The Diesel Engine(s) General Permit establishes the following application and renewal fees payable every five (5) years if no equipment changes occur:

Three hundred seventy five dollars.

An additional application fee as indicated above is required each time the permittee installs or modifies a diesel-fired internal combustion engine. The installation or modification of a diesel-fired internal combustion engine must be conducted according to the terms and conditions of this general permit. Two (2) or more diesel-fired engines may be installed under a single plan approval fee.

**14. Expiration and Renewal of Authorization to Use Diesel Engine(s) General Permit:**

The permittee's right to operate under this Diesel Engine(s) General Permit terminates on the date of expiration of the authorization to operate under this permit unless a timely and complete renewal application is submitted to the Department 30 days prior to the permit expiration date.

Upon receipt of a complete and timely application for renewal, the diesel-fired internal combustion engines may continue to operate subject to final action by the Department on the renewal application. This protection shall cease to exist if, subsequent to a completeness determination, the applicant fails to submit by the deadline specified in writing by the Department any additional information required by the Department to process the renewal application.

The Diesel Engine(s) General Permit application for renewal shall include: the identity of the owner or operator; location of the diesel-fired internal combustion engines; current permit number; description of the engines and equipment located at the facility; information regarding previously imposed limitations; the appropriate renewal fee listed in Condition 13; and, any other information requested by the Department. At a minimum, the permit renewal fee shall be submitted to the Department at least 30 days prior to the expiration of the Diesel Engine(s) General Permit.

**15. Applicable Laws:**

Nothing in this Diesel Engine(s) General Permit relieves the permittee of its obligation to comply with all applicable Federal, state, and local laws and regulations.

**16. Prohibited Use:**

Any stationary air contamination source that is subject to the requirements of 25 *Pa. Code* Chapter 127, Subchapter D (relating to prevention of significant deterioration), 25 *Pa. Code* Chapter 127, Subchapter E (relating to new source review), 25 *Pa. Code Chapter* 127, Subchapter G (relating to Title V operating permits), or 25 *Pa. Code* §129.91 (relating to control of major sources of NO<sub>x</sub> and VOCs) may not operate a diesel-fired internal combustion engines under this Diesel Engine(s) General Permit. Title V facilities may use this Diesel Engine(s) General Permit as a plan approval when the major new source review and prevention of significant deterioration review requirements are not applicable.

**17. Transfer of Ownership or Operation:**

The permittee may not transfer the authorization to operate diesel engine(s). New owners or operators shall submit a new application and fees as described in Condition 13.

**18. Department and Municipality Notification:**

The permittee shall notify the Department and the municipality prior to relocation of any diesel-fired engine(s) used for operating a portable nonmetallic mineral processing plant as required under 25 *Pa. Code* §127.641(b)(2). The notification for relocation of any diesel-fired engine(s) to the Department and the municipality shall be either hand delivered or transmitted by certified mail return receipt requested as required under 25 *Pa. Code* §127.641(c).

**19. Start-up and Shut-down Exclusion:**

The emission limitations stated in Condition 7 of this General Permit shall apply at all times except during periods of start-up and shut-down, provided, however, that the duration of start-up and shut-down do not exceed one hour per occurrence.

**20. Emission Limitations and/or Operating Requirements Previously Established Pursuant to Best Available Technology and/or Imposed to Give Synthetic Minor Status:**

This Diesel Engine(s) General Permit cannot be used to vacate or reestablish best available technology or other emission limitations or requirements established through the air quality permitting process. Also, this General Permit was not intended to establish a new best available technology or other emissions limitations previously established through the air quality permitting process. The Department shall memorialize these limitations in the letter of authorization granted in accordance with Condition 2.

Note: A permittee may choose to apply for a plan approval for an engine in lieu of this general plan approval. If this option is chosen the applicable requirements shall be determined on a case-by-case basis.

Approved by: \_\_\_\_\_  
Joyce E. Epps  
Director  
Bureau of Air Quality

Date Approved: March 17, 2005



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
FIELD OPERATIONS - BUREAU OF AIR QUALITY

**GENERAL PLAN APPROVAL AND GENERAL OPERATING PERMIT  
(BAQ-GPA/GP-13)**

In accordance with provisions of the Air Pollution Control Act, the act of January 8, 1960, P.L. 2119, as amended, and after due consideration of an application received under Chapter 127 of the Rules and Regulations of the Department of Environmental Protection, the Department hereby issues this permit for the operation of the air contamination source(s) described below:

<b>Permit No.</b>	<u>GP13-09-0001</u>	<b>Source(s)</b>	<u>1-Dillman Unified Counterflow Drum equipped with Phoenix Talon II Dryer/Burner 1-Dillman Baghouse, Model D-PRPBH-80-498 1-Asphalt Storage Tanks, Model H-30BPAA5</u>
<b>Owner</b>	<u>Richard E. Pierson Materials Corporation</u>	<b>Air</b>	<u></u>
<b>Address</b>	<u>426 Swedesboro Rd. Pilesgrove, NJ 08098</u>	<b>Cleaning</b>	<u></u>
		<b>Device</b>	<u></u>
<b>Attention</b>	<u>Curt Mitchell Facility Director</u>	<b>Location</b>	<u>Hanson Quarry (East Rock Hill Plant) 2055 N. Rockhill Road Sellersville (E. Rockhill Twp.), Bucks County</u>

This general Plan Approval and general permit is subject to the attached conditions for Portable Hot Mix Asphalt Plants (BAQ-GPA/GP-13): and shall include the following:


The operating hours shall not exceed 2000 hours per year and the production shall not 500,000 tons per year.

**(SEE CONDITIONS ATTACHED)**

Failure to comply with the conditions placed on this permit is a violation of Section 127.444. Violation of this or any other provision of Article III of the Rules and Regulations of the Department of Environmental Protection will result in suspension or revocation of this permit and/or prosecution under Section 9 of the Air Pollution Control Act.

Issued September 7<sup>th</sup>, 2018

Expires September 7<sup>th</sup>, 2023

  
James D. Rebarchak  
Regional Manager  
Air Quality

cc: Central Office  
Administration  
SERO  
Re 30



Commonwealth of Pennsylvania  
Department of Environmental Protection  
Bureau of Air Quality

GENERAL PLAN APPROVAL AND/OR GENERAL OPERATING PERMIT  
BAQ-GPA/GP-13

HOT MIX ASPHALT PLANTS

**1. Statutory Authority and General Description**

In accordance with Section 6.1(f) of the Pennsylvania Air Pollution Control Act (APCA), 35 P.S. § 4006.1(f), 25 Pa. Code §§ 127.514 (relating to general operating permits at Title V facilities) and 127.611 (relating to general plan approvals and general operating permits), the Pennsylvania Department of Environmental Protection ("Department") hereby issues this General Plan Approval and General Operating Permit ("General Permit") for Hot Mix Asphalt plants ("HMA plants"), BAQ-GPA/GP-13.

**2. Applicability/Source Coverage Limitations**

BAQ-GPA/GP-13 applies to HMA plants which produce asphaltic concrete through batch, continuous mix, counter-flow drum-mix, or drum methods. This General Permit authorizes the construction, modification and operation of any HMA plant that is typically comprised of a combination of the following: dryers; systems for screening, handling, storing, and weighing hot aggregate; systems for crushing, screening, handling, storing, and weighing recycled asphalt pavement; systems for loading, transferring, and storing mineral filler, asphalt heaters; systems for mixing, transferring, storing and loading hot mix asphalt into trucks, and the associated emission control systems.

This General Permit is limited to the construction, modification and/or operation of HMA plants that are located at facilities for which a valid mining permit or an air quality operating permit has been issued by the Department.

If an exemption is applicable under 25 Pa. Code §§127.14 (relating to exemptions) or 127.449 (relating to de minimis emission increases), the use of this General Permit to authorize construction, modification, and/or operation of HMA plants is not necessary.

If any HMA plant cannot be regulated by the requirements of this General Permit, a plan approval issued in accordance with 25 Pa. Code, Chapter 127, Subchapter B (relating to plan approval requirements), operating permit issued in accordance with Subchapter F (relating to operating permit requirements) or 25 Pa. Code, Chapter 127, Subchapters F and G (relating to Title V operating permits) will be required, if applicable.

Prohibited Use

This General Permit has been established in accordance with 25 Pa. Code Chapter 127, Subchapter H (relating to general plan approvals and general operating permits) and is not applicable to:



- a. Any stationary air contamination source that is subject to 25 Pa. Code Chapter 127, Subchapter D (relating to prevention of significant deterioration);
- b. Any stationary air contamination source that is subject to 25 Pa. Code Chapter 127, Subchapter E (relating to new source review); and
- c. Any stationary air contamination source that is subject to 25 Pa. Code Chapter 127, Subchapters F and G (relating to operating permit requirements and Title V operating permits).

#### Plan Approval

This General Permit establishes best available technology (BAT) requirements and authorizes the construction or modification of HMA plants that are subject to the BAT requirements of 25 Pa. Code §§ 127.1 and 127.12(a)(5).

#### Operating Permit

This General Permit authorizes the operation of a HMA plant unless the respective operation is located in a facility that has or is required to have an operating permit pursuant to 25 Pa. Code, Chapter 127, Subchapter F, or 25 Pa. Code Chapter 127, Subchapters F and G. The HMA plant that is constructed or modified under this General Permit and located in a facility that is subject to 25 Pa. Code, Chapter 127, Subchapter F, or Subchapters F and G, may, however, be operated under this General Permit on a temporary basis until such time as the operating permit required pursuant to 25 Pa. Code, Chapter 127, Subchapter F, or Subchapters F and G, has been obtained or amended by the Department to include the terms and conditions of this General Permit.

Once authorization to use this General Permit is granted by the Department, operation may proceed provided that the owner or operator notifies the Department in accordance with Condition 7 of the General Permit.

### **3. Municipal Notifications**

As required under section 1905-A of the Administrative Code of 1929 ( 71 P.S. § 510-5), a facility owner or operator proposing to use the General Plan Approval/ General Permit shall submit a copy of the application to each municipality in which the sources will be constructed, modified or operated under BAQ-GPA/GP-13. The notice to municipalities shall be provided at least 15 working days prior to submitting the application to the Department.

### **4. Application for Use**

Pursuant to 25 Pa. Code § 127.621 (relating to application for use of general plan approvals and general operating permits), any person proposing to construct, operate or modify a HMA Plant under the General Permit shall notify the Department using the BAQ-GPA/GP-13 application and shall receive prior written approval from the Department before construction or modification may commence. This application shall be accompanied by the appropriate application fee, proof of municipal notification and any additional forms and information requested by the Department. The Department will take action on the complete application within thirty (30) days of receipt.



This General Permit authorizes the specific source and the specific location of the source as described in the application.

Words and terms that are not otherwise defined in this General Permit shall have the meanings set forth in Section 3 of the Air Pollution Control Act (35 P.S. §4003) and 25 Pa. Code §121.1.

## 5. Compliance

The owner or operator authorized to use BAQ-GPA/GP-13 shall comply with the specifications in the application and terms and conditions of the General Permit. The HMA plant owner or operator shall keep copies of the General Permit and application at the facility and shall make them available to the Department upon request.

The potential to emit of any HMA plant proposing to operate under this General Permit shall be limited by hours of operation, production rate and other relevant specifications in the application. The HMA plant shall be:

- a. Operated in such a manner as not to cause air pollution as that term is defined in 25 Pa. Code § 121.1;
- b. Operated and maintained in a manner consistent with good operating and maintenance practices;
- c. Operated and maintained in accordance with practices based on the "manufacturer's specifications;" and
- d. Operated and maintained in such a manner that no owner or operator may permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source that the malodors are detectable outside the property of the owner or operator on whose land the facility is being operated in accordance with 25 Pa. Code §123.31 (relating to limitations).

## 6. Modification, Suspension and Revocation

This General Permit may be terminated, modified, suspended or revoked if the Department determines that the HMA plant cannot be adequately regulated under this General Permit.

Any authorization to construct and/or operate an HMA plant under this General Permit may be suspended or revoked if the Department determines that, at any time, the owner or operator has failed to construct and/or operate the HMA plant in compliance with the terms and conditions of this General Permit or information identified in the application. Upon receipt of written notification by the Department of the suspension, termination or revocation of authorization to construct and/or operate the HMA plant under this General Permit, the owner or operator shall immediately cease construction or cease operation of the HMA plant until the Department grants approval, in writing.



## 7. Notice requirements

The applications and notifications required by 25 Pa. Code § 127.621 and Condition 4 of this General Permit shall be submitted to the appropriate Department Regional Office responsible for issuing general permits in the county in which the HMA plant is or will be located. As required under § 127.621(b), the application shall be either hand delivered or sent by certified mail, return receipt requested.

The owner or operator shall notify the Department, in writing, of the owner's or operator's intent to commence operation of the HMA plant or any activity authorized by this General Permit at least five (5) business days prior to commencement of operation. When the HMA plant involves multiple sources on different time schedules, notice is required for the commencement of operation of each source.

**Malfunctions:** The owner or operator shall notify the Department by telephone within twenty-four (24) hours of the discovery of any malfunction of any HMA plant operating pursuant to this General Permit, or any malfunction of an associated fabric collector (baghouse), which results in, or may possibly be resulting in, the emission of air contaminants in excess of any applicable limitation specified herein or in excess of the limitations specified in any applicable rule or regulation contained in 25 Pa. Code, Chapters 121 through 145, or which otherwise results in, or may possibly be resulting in, noncompliance with the requirements specified in any applicable condition of this General Permit. If the owner or operator is unable to provide notification to the appropriate Regional Office within twenty-four (24) hours of discovery of a malfunction due to a weekend or holiday, the notification shall be made to the Department by no later than 4 p.m. on the first business day for the Department following the weekend or holiday. In addition, the owner or operator shall provide subsequent written reports regarding any reported malfunction, as requested by the Department.

## 8. Terms of Authorization to Use General Permit

The authorization to construct and/or operate any HMA plant under this General Permit is granted for a fixed period of five (5) years except that the authorization to construct the HMA plant will expire eighteen (18) months from the date of Department authorization if the owner or operator fails to commence construction. If construction commences (as defined in 25 Pa. Code Section 121.1) within eighteen (18) months of the date of receipt of authorization to use this General Permit, but it is not yet completed, the authorization to construct the HMA plant under this General Permit is automatically extended, provided there is no subsequent lapse in construction activity of eighteen (18) months or more.

The Department will notify the owner or operator, in writing, when authority to construct and/or operate under this General Permit is granted.

## 9. Fees

BAQ-GPA/GP-13 establishes the following plan approval and operating permit fee schedule:



- a. General Plan Approval application fee:

One thousand dollars (\$1,000)

A new application with fee as indicated above is required each time the owner or operator installs or modifies the HMA plant. The installation or modification of any HMA plant must be conducted according to the terms and conditions of this General Permit.

- b. General Operating Permit fee:

Three hundred seventy-five dollars (\$375)

The general operating permit fee shall be included in the total amount of the fees submitted to the Department when requesting authorization to use this General Permit.

- c. Annual operating permit administration fee, payable on an annual basis:

Three hundred seventy-five dollars (\$375)

- d. General Operating Permit renewal fee payable every five years:

Three hundred seventy-five dollars (\$375)

## 10. Expiration and Renewal of Authorization

Authorization to construct and/or operate under this General Permit shall terminate on the date of expiration of the authorization granted by the Department to construct and/or operate under this General Permit unless a complete renewal application is submitted to the Department at least thirty (30) days prior to the expiration date of the authorization.

Upon receipt by the Department of a timely and complete application for renewal to operate under this General Permit, the owner or operator may continue to operate the respective HMA plant subject to final action by the Department on the renewal application provided that the HMA plant is operated in compliance with all terms and conditions of this General Permit. However, this authorization shall terminate if the owner or operator fails to submit, by the deadline specified by the Department, any information required by the Department to process the renewal application.

## 11. Applicable Laws

Nothing in this General Permit relieves the owner or operator from the obligation to comply with all applicable federal, state and local laws, ordinances and regulations. The issuance of this General Permit does not prevent the future adoption by the Department of any rules, regulations or standards, or the issuance of orders necessary to comply with the requirements of the federal Clean Air Act, the APCA or regulations adopted under the



acts. The issuance of this General Permit shall not be construed to limit the Department's enforcement authority.

Wherever a conflict occurs between this General Permit and any applicable federal and state regulations, the owner or operator shall, in all cases, meet the more stringent requirements.

## 12. Public Records and Confidential Information

- a. The records, reports or information obtained by the Department under this General Permit shall be available to the public, except as provided in paragraph (b) of this condition.
- b. Upon cause shown by the owner or operator that the records, reports or information, or a particular portion thereof, but not emission data, to which the Department has access under the APCA, if made public, would divulge production or sales figures or methods, processes or production unique to that person or would otherwise tend to affect adversely the competitive position of that person by revealing trade secrets, including intellectual property rights, the Department will consider the record, report or information, or particular portion thereof confidential in the administration of the APCA. The Department will implement this section consistent with sections 112(d) and 114(c) of the federal Clean Air Act (42 U.S.C.A. §§ 7412(d) and 7414(c)). Nothing in this section prevents disclosure of the report, record or information to federal, state or local representatives as necessary for purposes of administration of federal, state or local air pollution control laws, or when relevant in a proceeding under the APCA.

## 13. Transfer of Ownership

The owner or operator may not transfer the authorization to construct and/or operate any HMA plant under this General Permit to another owner or operator. Any subsequent owner or operator must submit a new General Permit application and fee in accordance with Conditions 4 and 9 of this General Permit.

## 14. Limitations and Requirements (Including Best Available Technology)

- a. The owner or operator of any HMA plant for which a plan approval was previously issued pursuant to 25 Pa. Code §127.11 (relating to plan approval requirements) shall comply with the applicable air contaminant emission limitations specified in this General Permit and in 25 Pa. Code §§ 123.1 (relating to prohibition of certain fugitive emissions), 123.13 (relating to processes) and 123.41 (relating to limitations). In addition, compliance with any BAT requirements established in the previously issued plan approval pursuant to the BAT requirement specified in 25 Pa. Code §§ 127.1 and 127.12(a)(5) is also required.

Pursuant to 25 Pa. Code 25 § 123.1(a), there shall be no fugitive emissions from this facility at any time, except those that are a direct result of stockpiling or use of roads. Pursuant to 25 Pa. Code § 123.1(c), all reasonable actions shall be taken to prevent particulate matter that may arise from stockpiling or use of roads from becoming airborne. Pursuant to 25 Pa. Code § 123.2 (relating to fugitive particulate matter), fugitive emissions shall not cross the owner or operator's property line at any time.



Any HMA plant owner or operator authorized to use this General Permit shall comply with the following limitations and requirements:

- i. The drop heights from front-end loaders being used to stockpile, transfer, and load aggregate shall be kept as short as possible to minimize dust emissions.
- ii. Stockpiles shall be kept as compact as possible to limit exposure to the wind. Material shall be stockpiled in such a manner that it may be adequately wetted as necessary to control fugitive emissions.
- iii. All in-plant roads shall be maintained to prevent particulate matter from becoming airborne in accordance with 25 Pa. Code §§ 123.1 and 123.2.
- iv. All unpaved in-plant roads shall be watered once per day during warm weather, at the start of each shift, if no precipitation has fallen within the previous twenty-four (24) hours, and as needed thereafter on a preventative basis such that visible fugitive emissions are controlled in accordance with 25 Pa. Code §§ 123.1 and 123.2. Other methods of dust control may be used when weather conditions make the watering of unpaved roads hazardous.
- v. In accordance with 25 Pa. Code § 123.1(c), the owner or operator shall promptly remove earth or other material from paved roads onto which earth or other material has been transported by trucking or earth moving equipment, or other means.
- vi. A set vehicle pattern shall be established and maintained for vehicles entering and exiting the plant.
- vii. The owner or operator shall post a sign limiting speeds to less than 15 mph on all in-plant roads.
- viii. The owner or operator shall post and enforce a requirement stating "All vehicles entering or exiting the plant property shall be properly tarpaulin covered." Vehicles with a gross vehicle weight rating of less than 10,000 pounds shall be exempt from this condition.
- ix. The Department reserves the right to require additional controls (water sprays, paving, conveyor covers, etc.) based on evaluation of the operation after inspection and determination that existing controls are not adequate for controlling fugitive emissions.
- x. Speed limit signs shall be posted consistent with the requirements of the Pennsylvania Department of Transportation (overall dimension 20 inches x 24 inches, "SPEED LIMIT" in 4-inch letters and 10-inch numerals).
- xi. Only HMA plants controlled by an appropriately designed fabric collector (i.e., baghouses capable of complying with all applicable requirements) may apply for this General Permit. A fabric collector ("baghouse") shall be accepted by the Department as "appropriately designed" only if the Department determines





it to be based upon the information provided by the owner or operator and on any other information available to the Department.

- xii. No fugitive air contaminant emissions shall be generated as a result of removing collected dust from the baghouse or as a result of subsequently handling the collected dust on-site following its removal from the collector.
- xiii. The owner or operator shall keep sufficient quantity of spare baghouse bags, at a minimum of 10% of the total number of bags, on hand for immediate replacement.
- xiv. The owner or operator is approved to burn the following fuels under this General Permit:
  - 1.) Propane
  - 2.) Natural gas
  - 3.) No.2 fuel oil
  - 4.) No.4 fuel oil
  - 5.) On-specification waste-derived liquid fuel ("WDLF")
  - 6.) Biodiesel that is a fuel comprised of mono-alkyl esters of long chain fatty acids derived from vegetable oils or animal fats and conform to ASTM D6751 specifications.
  - 7.) Any alternative fuels that, unless specified, meet the same specification as other fuels permitted under this General Permit, such as:
    - A.) Liquid biofuels derived from recycled vegetable oils or animal fats from restaurants or food processing industries after processed through filtration, deodorization, water washing or other polishing and refining steps.
    - B.) Biofuels from bio-processing of cellulosic bio-mass.
    - C.) Bio-oils produced by pyrolysis of bio-mass materials.
- xv. The owner or operator may not use a fuel to fire a burner at the plant that exceeds the sulfur limits stated below:
  - 1.) For No.2 fuel oil, biodiesel and alternative fuels,  $\leq 0.3\%$ , by weight.
  - 2.) For No.4 fuel oil and WDLF,  $\leq 0.5\%$ , by weight.
- xvi. Fuel analysis records shall be used to demonstrate compliance with the above sulfur limitations. For each shipment of any liquid fuel, fuel sulfur content shall also be demonstrated by providing the supplier's fuel certification for the type of fuel received.



xvii. On-Specification WDLF

The owner or operator shall not accept at the facility any WDLF which is represented by the oil supplier as failing to meet following standards, or for which the facility does not have documentation from the waste oil supplier verifying the following acceptable standards:

- Sulfur  $\leq$  0.5% (by weight)
- Btu  $\geq$ 8000 btu/lb
- Flashpoint  $\geq$ 100°F;
- Total Halogens (TX)  $\leq$  1000 ppmw
- Lead  $\leq$  100 ppmw
- Arsenic  $\leq$  5 ppmw
- Cadmium  $\leq$  2 ppmw
- Chromium  $\leq$ 10 ppmw
- PCBs Not Detectable
- Ash  $\leq$  1.0% (by weight)

xviii. Analytical Techniques

The following analytical techniques and methods, or alternative methods approved in writing by the Department, will be accepted for the analyses required by this General Permit.

Constituent	Analytical Technique
Arsenic	EPA Method 6010, 6020, 7010, 7061, or 7062
Cadmium	EPA Method 6010, 6020, 7000 or 7010
Chromium	EPA Method 6010, 7000 or 7010
Lead	EPA Method 6010, 7000 or 7010
PCBs	EPA Method 8082
TX	EPA Method 9075, 9076, or 9077
Flash Point	EPA Method 1010 or ASTM D93
Ash	ASTM D482
Sulfur	ASTM D3227, D1552, D4294, or D129

xix. The owner or operator may not blend WDLF into existing fuel or burn WDLF by itself unless an analysis has been performed for the specified constituents and a copy of the analysis is available demonstrating that none of the levels cited in Condition 14 a.xvii are exceeded before it is fired as fuel for the dryer. For each shipment of WDLF, a fuel specification sheet shall be obtained from the supplier. All such documents shall be kept at the facility for a period of three (3) years and shall be made available to the Department upon request.

xx. Total Halogen Screening for WDLF

Prior to accepting each shipment of WDLF delivered to the facility, the owner or operator shall test each shipment for total halogens using EPA Reference Method 9077, or an alternate test method if approved in writing by the Department. If the test of any shipment reveals total halogens in excess of 1,000 ppmw, then the owner or operator shall refuse to accept the shipment.



Vendor guarantee or recent test data from WDLF suppliers shall be sufficient to show compliance with this standard. The permittee shall keep records of the results of sampling required by this condition for at least three (3) years.

xxi. Taking and Retaining Samples

The owner or operator shall take and retain a sample of each shipment of WDLF, biodiesel and any alternative fuels that is delivered to the facility. The samples shall be retained on-site for at least one year and shall be made available to the Department upon request. The samples are to be sealed and identified with the identity of the supplier, the date of delivery, the delivery invoice number, and the total gallons of WDLF in the shipment.

xxii. Auditing for WDLF

For at least one (1) out of every fifteen (15) shipments of WDLF received at the facility, the owner or operator shall take an additional sample for the purpose of conducting a complete analysis for all the properties listed in Condition 14.a.xvii. The owner or operator shall use test methods specified in Condition 14.a.xviii, unless an alternate test method has been approved in writing by the Department. Aside from any sample taken from a shipment of WDLF received at the facility, the owner or operator need not store such additionally-sampled fuel separately nor delay its use. If the analysis results on such fuel are not received within fifteen (15) days of the date of delivery of the relevant shipment, the permittee shall cease using the WDLF fuel from the tank(s) in which the relevant shipment was placed until compliance with the limits listed in Condition 14.a.xvii is verified in the laboratory results. This auditing provision should not be interpreted, in any event, to allow the owner or operator to accept knowingly or use fuel not meeting permit specifications, or to accept or use fuel for which the facility does not have documentation from the waste oil supplier regarding compliance with permit specifications. If the analysis results show exceedances of any of the limits listed in Condition 14.a.xvii, then the owner or operator shall cease using the WDLF from the tank(s) in which the relevant shipment was placed, and shall not resume using WDLF from the tank(s) until either:

- 1.) The Department has granted written approval to resume use of the WDLF based on an alternate demonstration of acceptability of the WDLF in the tank(s) for use as fuel at the facility, or
- 2.) The WDLF remaining in the tank(s) has been re-sampled and
  - A.) If the re-sample meets the limits in Condition 14.a.xvii, the Department has granted written permission to resume using the WDLF, or
  - B.) If the re-sample fails to meet the limits in Condition 14.a.xvii, the Department has granted written permission to resume using the tank(s) after the owner or operator has emptied the WDLF from the tank(s) and has made proper disposal arrangements and the tank



has been refilled with WDLF that meets the limits in Condition 14.a.xvii.

The owner or operator shall cease using the WDLF from such tank(s) not later than two (2) hours after making the original determination, or having had reasonable opportunity to make the determination that off-specification WDLF was placed in the tanks.

Upon successful demonstration for each supplier of their accuracy in ensuring delivery of eight (8) consecutive samples of on-specification WDLF fuels that comply with properties listed in Condition 14.a.xvii, the auditing frequency of shipments may be decreased by the Department. The auditing frequencies shall be determined for each individual supplier on a case-by-case basis depending on recorded compliance history and margin of compliance. The records of sample analysis results shall be kept at the facility for a period of three (3) years and shall be made available to the Department upon request.

xxiii. WDLF Sampling

The Department reserves the right to random sample any alternative fuels to check if they meet the same specifications as other fuels permitted under this General Permit.

In the case of WDLF, if the analysis results from any random tank sampling conducted by the Department show exceedances of any of the limits in Condition 14.a.xvii of the General Permit, the owner or operator shall cease using WDLF from the affected tank(s) and shall not resume using WDLF from the tank(s) until either:

- 1.) The Department has granted written approval to resume use of the WDLF based on an alternate demonstration of compliance for the original sample; or
- 2.) The Department has granted written permission to resume placing WDLF in the tank(s) after the owner or operator has emptied the off-specification WDLF from the tank(s) and has made proper disposal arrangements.

The owner or operator shall cease using the WDLF from such tank(s) not later than 2 hours after receiving notification from the Department of the exceedances.

xxiv. This General Permit shall not be construed to authorize the permittee to transport, treat, process, or refine any fuel, or to blend off-specification fuel with any other fuels for the purpose of producing an on-specification mixture.

xxv. The owner or operator is responsible for the proper storage and management of liquid biofuels to ensure the following:

- 1.) The storage conditions shall not cause the harborage, breeding, or attraction of vectors; and



2.) If vectors are present, measures necessary to exterminate them are immediately taken.

b. The owner or operator of any existing HMA plant constructed after July 1, 1972, but prior to the effective date of this General Permit and for which an approval was obtained pursuant to 25 Pa. Code § 127.11 shall comply with the following limitations and requirements:

- i. The filterable particulate matter emissions in the exhaust of the baghouse shall not exceed 0.016 grains per dry standard cubic foot of effluent gas volume.
- ii. The following emission limits pertain to Nitrogen Oxide (NO<sub>x</sub>), Carbon Monoxide (CO) and Volatile Organic Compounds (VOC, as propane):

Pollutant	NO <sub>x</sub>	CO	VOC (as propane)
Emission limits	85 ppmvd @15% O <sub>2</sub>	350 ppmvd @15% O <sub>2</sub>	60 ppmvd @15% O <sub>2</sub>

iii. The owner or operator may not permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is equal to or greater than 10% at any time.

c. The owner or operator of any HMA plant constructed after the effective date of this General Permit, and a plant constructed after July 1, 1972, but prior to the effective date of this General Permit and for which no plan approval was obtained pursuant to 25 Pa. Code § 127.11 shall comply with the following best available technology requirements, which are hereby established pursuant to 25 Pa. Code §§ 127.1 and 127.12(a)(5):

- i. The filterable particulate matter emissions in the exhaust of the fabric collector (baghouse) shall not exceed 0.009 grains per dry standard cubic foot of effluent gas volume.
- ii. The total PM-10 (filterable plus condensable) in the exhaust of the baghouse shall not exceed 0.021 grains per dry standard cubic foot of effluent gas volume.
- iii. There shall be no visible air contaminant emissions from the exhaust of the baghouse.
- iv. Pursuant to BAT requirements, the following emission limits pertain to NO<sub>x</sub>, CO and VOC (as propane)



Pollutant	NOx	CO	VOC (as propane)
Emission limits	60 ppmvd @15% O <sub>2</sub>	200 ppmvd @15% O <sub>2</sub>	30 ppmvd @15% O <sub>2</sub>

## 15. Performance Testing/Tuning

- a. Emissions testing using EPA reference methods shall be conducted one time while the source is burning the worst case fuel to verify compliance with filterable particulate, NOx, CO and VOCs. An existing HMA plant as described in Condition 14.b. may use an earlier stack test result approved by the Department for demonstration of compliance with this requirement, if it has been tested for the worst case fuel. The new and other plants as described in Condition 14.c. shall be tested for total PM<sub>10</sub> and PM<sub>2.5</sub>.

The owner or operator shall comply with the following requirements:

- i. Within one hundred eighty (180) days of the commencement of operation of any HMA plant at the respective site, the owner or operator shall perform a source test to establish the baseline emissions of filterable particulate, NOx, CO and VOCs. The new and other plants as described in Condition 14.c. of this General Permit shall also be tested for total PM<sub>10</sub> and PM<sub>2.5</sub>.
- ii. At least sixty (60) calendar days prior to commencing an emissions testing program required by this General Permit, a test protocol shall be submitted to the Department's Division of Source Testing and Monitoring and the appropriate Regional Office for review and approval. The test protocol shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual. The emissions testing shall not commence prior to receipt of a protocol acceptance letter from the Department.
- iii. At least fifteen (15) calendar days prior to commencing an emissions testing program required by this General Permit, written notification of the date and time of testing shall be provided to the Department's appropriate Regional Office. Notification in writing shall also be sent to the Department's Bureau of Air Quality, Division of Source Testing and Monitoring. The Department is under no obligation to accept the results of any testing performed without adequate advance written notice to the Department of such testing.
- iv. Within fifteen (15) calendar days after completion of the on-site testing portion of an emission test program, if a complete test report has not yet been submitted, an electronic mail notification shall be sent to the Department's Division of Source Testing and Monitoring at [RA-epstacktesting@state.pa.us](mailto:RA-epstacktesting@state.pa.us) and the appropriate Regional Office indicating the completion date of the on-site testing.



- v. A complete test report shall be submitted to the Department no later than sixty (60) calendar days after completion of the on-site testing portion of an emission test program.
- vi. A complete test report shall include a summary of the emission results on the first page of the report indicating if each pollutant measured is within permitted limits and a statement of compliance or non-compliance with all applicable permit conditions. The summary results shall include, at a minimum, the following information:
  - 1.) A statement that the owner or operator has reviewed the report from the emissions testing body and agrees with the findings;
  - 2.) Permit number(s) and condition(s) which are the basis for the evaluation;
  - 3.) Summary of results with respect to each applicable permit condition; and
  - 4.) A statement of compliance or non-compliance with each applicable permit condition.
- vii. All submittals shall meet all applicable requirements specified in the most current version of the Department's Source Testing Manual.
- viii. All submittals, except notifications, shall be accomplished through PSIMS\*Online, available through <https://www.depgreenport.state.pa.us/ecommm/Login.jsp> . If Internet submittal is not feasible, one copy of the submittal shall be sent to the appropriate Pennsylvania Department of Environmental Protection Regional Office and to the attention of the Department's Bureau of Air Quality, Division of Source Testing and Monitoring, 400 Market Street, 12th Floor Rachel Carson State Office Building, Harrisburg, PA 17105-8468 with deadlines verified through document postmarks.
- ix. The owner or operator shall comply with all applicable federal reporting requirements, including timelines more stringent than those contained in this General Permit. In the event of an inconsistency or any conflicting requirements between federal and state laws and regulation, the permittee shall comply with the most stringent provision, term, condition, method or rule.
- x. All testing shall be conducted in accordance with any applicable federal regulations (such as New Source Performance Standards, Subpart I); 25 Pa. Code, Chapter 139 (relating to sampling and testing); and the current revision of the Department's Source Testing Manual. The following federal reference methods shall be used to demonstrate compliance.
  - 1.) 40 CFR 60, Appendix A, Methods 1-4 shall be used to determine the volumetric flow rate of the effluent exiting the fabric collector (baghouse).



- 2.) 40 CFR 60, Appendix A, Method 5 shall be used to determine the filterable particulate emission concentration (grains/dscf) and emission rate (lbs/hour) in the effluent exiting the fabric collector (baghouse).
  - 3.) 40 CFR 60, Appendix A, Method 7E shall be used to determine the nitrogen oxides (NO<sub>x</sub>) concentration (ppmvd) and emission rate (lbs/hour) in the effluent exiting the fabric collector (baghouse).
  - 4.) 40 CFR 60, Appendix A, Method 10 shall be used to determine the carbon monoxide (CO) concentration (ppmvd) and emission rate (lbs/hour) in the effluent exiting the fabric collector (baghouse).
  - 5.) 40 CFR 60, Appendix A, Method 18 or an alternate method approved by the Department, shall be used to determine the methane/ethane concentration (ppmvd) and emission rate (lbs/hour) in the effluent exiting the fabric collector (baghouse).
  - 6.) 40 CFR 60, Appendix A, Method 25A shall be used to determine the total hydrocarbon (THC) concentration (ppmvd as propane) and emission rate (lbs/hour) in the effluent exiting the fabric collector (baghouse). The VOC concentration and emission rate shall be determined by subtracting the Method 18 (methane/ethane) results from the Method 25A results.
  - 7.) 40 CFR 60, Appendix A, Method 202 shall be used to determine the condensable particulate matter (CPM) concentration (grains/dscf) and emission rate (lbs/hour) in the effluent exiting the fabric collector (baghouse). The Method 5 and Method 202 results shall be summed to calculate the total PM-10 concentration and emission rate.
- xi. The testing shall be performed while the source is operating at a maximum routine operating conditions rate and while producing a typical mix formulation.

The following process data shall be recorded at 15-minute intervals (if possible) during each test run to document the operation of the plant and the baghouse:

- 1.) Type of Fuel (propane, natural gas, No.2 & No. 4 oil, WDLF, biodiesel, alternative fuels);
  - 2.) Fuel Usage (gpm for liquids; cfm for gases);
  - 3.) Asphalt Production Rate (tons/hr);
  - 4.) Aggregate Usage (tons/hr);
  - 5.) Asphaltic Oil (%);
  - 6.) Fines in mix (% <600 mesh); and
  - 7.) Mix Temperature (°F).
- b. Except for the first year, the owner or operator shall conduct a burner tuning procedure in accordance with the manufacturer's specifications to minimize NO<sub>x</sub> and CO emissions each year thereafter. The owner or operator shall conduct each annual tune-up not later than June 15 of each year or within four (4) weeks after each start-up of the HMA plant. An existing HMA plant as described in Condition 14.b of this General Permit may use an earlier stack test result approved by the





Department for demonstration of compliance with this requirement, if it has been already tested for the worst case fuel. In such case, conducting a burner tuning procedure in accordance with the manufacturer's specifications will be adequate. The owner or operator shall comply with the following requirements:

- i. The burner shall be tuned so that the emissions do not exceed limits stated in Conditions 14.b.ii. and 14.c.iv of the General Permit.
- ii. The air-to-fuel ratio controls shall be inspected and adjusted to ensure proper operation in accordance with the manufacturer's specifications.
- iii. Monitoring records stating the following information shall be kept on site for a minimum of five years and shall be made available to the Department upon request.
  - 1.) The date of the tuning procedure;
  - 2.) The name of the servicing company and technician;
  - 3.) The production rate (tons/hr) or load before and after tuning;
  - 4.) The CO and NOx concentrations (ppmvd) before and after tuning; and
  - 5.) The percent O<sub>2</sub> before and after tuning.
- c. The owner or operator shall, upon request of the Department, provide fuel analyses, or samples of any fuel permitted by the Department for use in any unit authorized to operate under this General Permit.
- d. If at any time the Department has reason to believe that the air contaminant emissions from the exhaust of a fabric collector (baghouse) associated with an HMA plant operating under this General Permit are, or may be, in excess of any applicable air contaminant emission limitation, the owner or operator shall conduct such stack tests or source tests requested by the Department to determine the actual air contaminant emission rate. The owner or operator shall perform any such testing in accordance with the applicable provisions of 25 Pa. Code, Chapter 139 (relating to sampling and testing) as well as in accordance with any additional requirements or conditions established by the Department at the time the owner or operator is notified, in writing, of the need to conduct testing.

#### **16. Monitoring, Recordkeeping and Reporting**

- a. The owner or operator shall maintain records including the following:
  - i. Monthly and 12-month rolling total for asphalt production;
  - ii. Daily records shall be made available to the Department upon request;
  - iii. 12-month rolling total for gallons of No. 2 fuel oil, No. 4 fuel oil, WDLF, biodiesel, alternative fuels used;
  - iv. Hours operated while firing each liquid fuel;
  - v. 12-month rolling total for each pollutant listed;
  - vi. Daily baghouse pressure drop reading;
  - vii. Daily stack, fugitive and malodor surveys;
  - viii. Any corrective actions taken to bring facility back into compliance with stack, fugitive, and malodor requirements of this permit; and



- ix. Records of tune-up and annual portable monitor testing done in accordance with Condition 15.b. of the General Permit.
  
- b. All logs and required records shall be maintained on site for a minimum of five (5) years and shall be made available to the Department upon request.
  
- c. The owner or operator shall perform monitoring of the facility at least once per operating day for the presence of visible emissions and malodors. The owner or operator shall take immediate corrective action to eliminate any emissions that are out of compliance with the plant's operating permit. A Method 9 reading is not required for the evaluation of visible emissions.
  
- d. The baghouse shall be equipped with instrumentation to monitor the differential pressure across the unit on a continuous basis. The gauge should be positioned so that it is easily accessed and read.
  
- e. Pursuant to 25 Pa. Code § 135.5 (relating to recordkeeping), the owner or operator of the HMA plant shall maintain and make available, upon request by the Department, such records as may be necessary to demonstrate compliance with 25 Pa. Code § 135.3 (relating to reporting). These records may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions. The records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.
  
- f. Pursuant to 25 Pa. Code § 135.3, a person who owns or operates an air contamination source to which 25 Pa. Code, Chapter 135 (relating to reporting of sources) applies and who has previously been advised by the Department to submit an annual emissions report shall submit by March 1 of each year an emission report for the preceding calendar year. The report shall include information for all previously reported air contamination sources, new air contamination sources that were first operated during the preceding calendar year and air contamination sources modified during the same period that were not previously reported.

An owner or operator who receives initial notification by the Department that an emission report is necessary shall submit the report within sixty (60) days after receiving notification or by March 1 of the year following the year for which the report is required, whichever is later.

- g. HMA plants constructed after June 11, 1973 are subject to the New Source Performance Standards of 40 CFR, Part 60, Subpart I, Standards of Performance for HMA Facilities. In accordance with 40 CFR 60.4, copies of all requests, reports, applications, and submittals, and other communications, shall be forwarded to EPA at the address listed below, unless otherwise noted.

Air Enforcement Branch Chief (3AP00)  
United States Environmental Protection Agency  
Region 3  
1650 Arch Street  
Philadelphia, PA 19103-2029



- h. The owner or operator of the HMA plant shall submit to EPA Region III the notifications required by 40 CFR § 60.7. The required notifications shall include the following: date of commencement of construction (within 30 days after starting construction), date of anticipated start-up (30-60 days prior to equipment start-up), actual start-up date (within 15 days after equipment start-up), physical or operational changes (60 days or as soon as practicable before equipment start-up), and opacity observations (within 30 days).

**17. Circumvention**

- a. The owner or operator, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.
- b. No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of this plan approval, the APCA or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

Approved by:

\_\_\_\_\_  
Joyce E. Epps  
Director, Bureau of Air Quality

Date approved:

\_\_\_\_\_  
February 2, 2010

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AIR QUALITY PROGRAM

PLAN APPROVAL

Issue Date: December 5, 2018  
Expiration Date: May 30, 2020

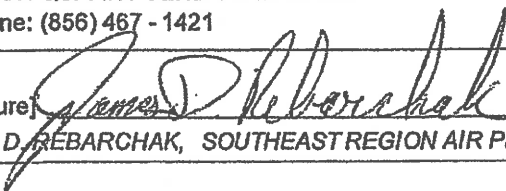
Effective Date: December 5, 2018

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to construct, install, modify or reactivate the air emission source(s) more fully described in the site inventory list. This Facility is subject to all terms and conditions specified in this plan approval. Nothing in this plan approval relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each plan approval condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated as "State-Only" requirements.

Plan Approval No. 09-0241

Federal Tax Id - Plant Code: 22-2975097-3

Owner Information	
Name: RICHARD E PIERSON MATERIALS CORP	
Mailing Address: PO BOX 714 BRIDGEPORT, NJ 08014-0714	
Plant Information	
Plant: HANSON AGGREGATES RICHARD E PIERSON OPR	
Location: 09 Bucks County	09922 East Rockhill Township
SIC Code: 1422 Mining - Crushed And Broken Limestone	
Responsible Official	
Name: JIM ALLEN	
Title: QUARRY GENERAL MANAGER	
Phone: (856) 467 - 1421	
Plan Approval Contact Person	
Name: JIM ALLEN	
Title: QUARRY GENERAL MANAGER	
Phone: (856) 467 - 1421	
[Signature]	
JAMES D. REBARCHAK, SOUTHEAST REGION AIR PROGRAM MANAGER	

Plan Approval Description

Plan Approval for the construction of a 1,000-ton per hour non-metallic mineral processing plant equipped with a wet suppression system.

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Note: These same sub-sections are repeated for each source!

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**SECTION A Plan Approval Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
101	1,000-TPH NON-METALLIC MINERAL PROCESSING PLANT	1,000,000 Tons/HR	DIABASE STONE
C101	WET DUST SUPPRESSION SYSTEM	N/A	
Z101	FUGITIVE PARTICULATE MATTER		

**PERMIT MAPS**





**SECTION B General Plan Approval Requirements****#001 [25 Pa. Code § 121.1]****Definitions**

Words and terms that are not otherwise defined in this plan approval shall have the meanings set forth in Section 3 of the Air Pollution Control Act (35 P.S. § 4003) and 25 Pa. Code § 121.1.

**#002 [25 Pa. Code § 127.12b (a) (b)]****Future Adoption of Requirements**

The issuance of this plan approval does not prevent the future adoption by the Department of any rules, regulations or standards, or the issuance of orders necessary to comply with the requirements of the Federal Clean Air Act or the Pennsylvania Air Pollution Control Act, or to achieve or maintain ambient air quality standards. The issuance of this plan approval shall not be construed to limit the Department's enforcement authority.

**#003 [25 Pa. Code § 127.12b]****Plan Approval Temporary Operation**

This plan approval authorizes temporary operation of the source(s) covered by this plan approval provided the following conditions are met.

(a) When construction, installation, modification, or reactivation is being conducted, the permittee shall provide written notice to the Department of the completion of the activity approved by this plan approval and the permittee's intent to commence operation at least five (5) working days prior to the completion of said activity. The notice shall state when the activity will be completed and when the permittee expects to commence operation. When the activity involves multiple sources on different time schedules, notice is required for the commencement of operation of each source.

(b) Pursuant to 25 Pa. Code § 127.12b (d), temporary operation of the source(s) is authorized to facilitate the shakedown of sources and air cleaning devices, to permit operations pending the issuance of a permit under 25 Pa. Code Chapter 127, Subchapter F (relating to operating permits) or Subchapter G (relating to Title V operating permits) or to permit the evaluation of the air contaminant aspects of the source.

(c) This plan approval authorizes a temporary operation period not to exceed 180 days from the date of commencement of operation, provided the Department receives notice from the permittee pursuant to paragraph (a), above.

(d) The permittee may request an extension of the 180-day shakedown period if further evaluation of the air contamination aspects of the source(s) is necessary. The request for an extension shall be submitted, in writing, to the Department at least 15 days prior to the end of the initial 180-day shakedown period and shall provide a description of the compliance status of the source, a detailed schedule for establishing compliance, and the reasons compliance has not been established. This temporary operation period will be valid for a limited time and may be extended for additional limited periods, each not to exceed 180 days.

(e) The notice submitted by the permittee pursuant to subpart (a) above, prior to the expiration of the plan approval, shall modify the plan approval expiration date on Page 1 of this plan approval. The new plan approval expiration date shall be 180 days from the date of commencement of operation.

**#004 [25 Pa. Code § 127.12(a) (10)]****Content of Applications**

The permittee shall maintain and operate the sources and associated air cleaning devices in accordance with good engineering practice as described in the plan approval application submitted to the Department.

**#005 [25 Pa. Code §§ 127.12(c) and (d) & 35 P.S. § 4013.2]****Public Records and Confidential Information**

(a) The records, reports or information obtained by the Department or referred to at public hearings shall be available to the public, except as provided in paragraph (b) of this condition.

(b) Upon cause shown by the permittee that the records, reports or information, or a particular portion thereof, but not emission data, to which the Department has access under the act, if made public, would divulge production or sales figures or methods, processes or production unique to that person or would otherwise tend to affect adversely the

**SECTION B: General Plan Approval Requirements**

competitive position of that person by revealing trade secrets, including intellectual property rights, the Department will consider the record, report or information, or particular portion thereof confidential in the administration of the act. The Department will implement this section consistent with sections 112(d) and 114(c) of the Clean Air Act (42 U.S.C.A. §§ 7412(d) and 7414(c)). Nothing in this section prevents disclosure of the report, record or information to Federal, State or local representatives as necessary for purposes of administration of Federal, State or local air pollution control laws; or when relevant in a proceeding under the act.

**#006 [25 Pa. Code § 127.12b]****Plan Approval terms and conditions.**

[Additional authority for this condition is derived from 25 Pa. Code Section 127.13]

(a) This plan approval will be valid for a limited time, as specified by the expiration date contained on Page 1 of this plan approval. Except as provided in §§ 127.11a and 127.215 (relating to reactivation of sources; and reactivation), at the end of the time, if the construction, modification, reactivation or installation has not been completed, a new plan approval application or an extension of the previous approval will be required.

(b) If construction has commenced, but cannot be completed before the expiration of this plan approval, an extension of the plan approval must be obtained to continue construction. To allow adequate time for departmental action, a request for the extension shall be postmarked at least thirty (30) days prior to the expiration date. The request for an extension shall include the following:

- (i) A justification for the extension,
- (ii) A schedule for the completion of the construction

If construction has not commenced before the expiration of this plan approval, then a new plan approval application must be submitted and approval obtained before construction can commence.

(c) If the construction, modification or installation is not commenced within 18 months of the issuance of this plan approval or if there is more than an 18-month lapse in construction, modification or installation, a new plan approval application that meets the requirements of 25 Pa. Code Chapter 127, Subchapter B (related to plan approval requirements), Subchapter D (related to prevention of significant deterioration of air quality), and Subchapter E (related to new source review) shall be submitted. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified.

**#007 [25 Pa. Code § 127.32]****Transfer of Plan Approvals**

(a) This plan approval may not be transferred from one person to another except when a change of ownership is demonstrated to the satisfaction of the Department and the Department approves the transfer of the plan approval in writing.

(b) Section 127.12a (relating to compliance review) applies to a request for transfer of a plan approval. A compliance review form shall accompany the request.

(c) This plan approval is valid only for the specific source and the specific location of the source as described in the application.

**#008 [25 Pa. Code § 127.12(4) & 35 P.S. § 4008 & § 114 of the CAA]****Inspection and Entry**

(a) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act.

(b) The permittee shall also allow the Department to have access at reasonable times to said sources and associated air cleaning devices with such measuring and recording equipment, including equipment recording visual observations, as the Department deems necessary and proper for performing its duties and for the effective enforcement of the Air Pollution Control Act and regulations adopted under the act.

**SECTION B: General Plan Approval Requirements**

(c) Nothing in this plan approval condition shall limit the ability of the Environmental Protection Agency to inspect or enter the premises of the permittee in accordance with Section 114 or other applicable provisions of the Clean Air Act.

**#009 [25 Pa. Code 127.13a]****Plan Approval Changes for Cause**

This plan approval may be terminated, modified, suspended or revoked and reissued if one or more of the following applies:

(a) The permittee constructs or operates the source subject to the plan approval in violation of the act, the Clean Air Act, the regulations promulgated under the act or the Clean Air Act, a plan approval or permit or in a manner that causes air pollution.

(b) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.

(c) The permittee fails to submit a report required by this plan approval.

(d) The Environmental Protection Agency determines that this plan approval is not in compliance with the Clean Air Act or the regulations thereunder.

**#010 [25 Pa. Code §§ 121.9 & 127.216]****Circumvention**

(a) The permittee, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.

(b) No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of this plan approval, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

**#011 [25 Pa. Code § 127.12c]****Submissions**

Reports, test data, monitoring data, notifications shall be submitted to the:

Regional Air Program Manager  
PA Department of Environmental Protection  
(At the address given on the plan approval transmittal letter or otherwise notified)

**#012 [25 Pa. Code § 127.12(9) & 40 CFR Part 68]****Risk Management**

(a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).

(b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the listed threshold quantity at the facility. The permittee shall submit the RMP to the Environmental Protection Agency according to the following schedule and requirements:

(1) The permittee shall submit the first RMP to a central point specified by the Environmental Protection Agency no later than the latest of the following:

**SECTION B: General Plan Approval Requirements**

- (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
- (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

(2) The permittee shall submit any additional relevant information requested by the Department or the Environmental Protection Agency concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.

(3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.

(c) As used in this plan approval condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

**#013 [25 Pa. Code § 127.25]****Compliance Requirement**

A person may not cause or permit the operation of a source subject to § 127.11 (relating to plan approval requirements), unless the source and air cleaning devices identified in the application for the plan approval and the plan approval issued to the source, are operated and maintained in accordance with specifications in the application and conditions in the plan approval issued by the Department. A person may not cause or permit the operation of an air contamination source subject to this chapter in a manner inconsistent with good operating practices.

**SECTION C. Site Level Plan Approval Requirements****I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The total particulate matter emissions from the facility shall not exceed 7.8 tons per year as particulate matter (PM) and/or PM10.

[Note: Particulate Matter (PM) means any finely divided solid or liquid material, other than uncombined water. PM10 refers to the aggregate of solid or liquid matter in air with aerodynamic diameters less than 10 micrometers.]

**# 002 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

No person may permit the emission into the outdoor atmosphere of a fugitive air contaminant from a source other than the following:

- (a) Construction or demolition of buildings or structures.
- (b) Grading, paving and maintenance of roads and streets.
- (c) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets.
- (d) Clearing of land.
- (e) Stockpiling of materials.
- (f) Open burning operations, as specified in 25 Pa. Code § 129.14.
- (g) Blasting in open pit mines. Emissions from drilling are not considered as emissions from blasting.
- (h) Coke oven batteries, provided the fugitive air contaminants emitted from any coke oven battery comply with the standards for visible fugitive emissions in 25 Pa. Code §§ 123.44 and 129.15 (relating to limitations of visible fugitive air contaminants from operation of any coke oven battery; and coke pushing operations).
- (i) Sources and classes of sources other than those identified in (a) -- (h) above, for which the operator has obtained a determination from the Department, in accordance with 25 Pa. Code §123.1(b), that fugitive emissions from the source, after appropriate control, meet the following requirements:

(1) The emissions are of minor significance with respect to causing air pollution; and

(2) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

**# 003 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

No person may permit air pollution as that term is defined in the Air Pollution Control Act (35 P.S. Section 4003).

**# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The opacity limitations as per 25 Pa. Code § 123.41 shall not apply to a visible emission in either of the following instances:

- (a) when the presence of uncombined water is the only reason for failure to meet the limitations; or
- (b) when the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.
- (c) when the emission results from the sources specified in 25 Pa. Code § 123.1(a)(1)-(9) (relating to prohibition of certain

## SECTIONIC Site Level Plan Approval Requirements

fugitive emissions).

**# 005 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

A person may not permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

- (a) Equal to or greater than 20% for a period or periods aggregating more than three (3) minutes in any one (1) hour.
- (b) Equal to or greater than 60% at any time.

**# 006 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in 25 Pa. Code § 123.1(a)(1)-(9) (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.

**# 007 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

A person may not permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source in such a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.

**# 008 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

No person may permit the open burning of material in the Southeast Air Basin except when the open burning operations results from:

- (a) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.
- (b) Any fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
- (c) A fire set for the prevention and control of disease or pests, when approved by the Department.
- (d) a fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation.
- (e) a fire set for the purpose of burning domestic refuse, when the fire is on the premises of a structure occupied solely as a dwelling by two families or less and when the refuse results from the normal occupancy of the structure.
- (f) A fire set solely for recreational or ceremonial purposes.
- (g) A fire set solely for cooking food.

**Throughput Restriction(s).**

**# 009 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

(a) Only nonmetallic mineral may be processed at this facility. Nonmetallic mineral means any of the following minerals or any mixture of which the majority is any of the following minerals: diabase stone.

(b) Nonmetallic minerals do not include coals of any type.

**SECTION C: Site Level Plan Approval Requirements****II. TESTING REQUIREMENTS.****# 010 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) If at any time the Department has cause to believe that air contaminant emissions from any source(s) listed in Section A, of this Permit, may be in excess of the limitations specified in this Permit, or established pursuant to, any applicable rule or regulation contained in 25 Pa. Code Article III, the permittee shall be required to conduct whatever tests are deemed necessary by the Department to determine the actual emission rate(s).

(b) Such testing shall be conducted in accordance with the provisions of 25 Pa. Code Chapter 139, and the most current version of the DEP Source Testing Manual, when applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the permittee that testing is required.

**# 011 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall submit one paper copy plus one electronic copy of all source test submissions (notifications, protocols, reports, supplemental information, etc.) to both the AQ Program Manager for the Southeast Regional Office and the PSIMS Administrator in Central Office (mail and email addresses are provided below). Any questions or concerns about source testing submissions can be sent to RA-EPstacktesting@pa.gov and the PSIMS Administrator will address them.

(b) The following pertinent information shall be listed on the title page.

**1. Test Date(s)**

- a. For protocols, provide the proposed date on which testing will commence or "TBD"
- b. For reports, provide the first and last day of testing

**2. Facility Identification Number (Facility- ID):** For test programs that were conducted under a multi-site protocol, also include the PF Id under which the protocol was stored in PSIMS, as indicated in the protocol response letter.

**3. Source ID(s) for the applicable source(s) and air pollution control device(s):** The term Source ID is used in the permit but "Other Id" is used in DEP electronic systems. They are the same number and must also be listed for control equipment

**4. Testing Requirements (all that apply)**

- a. Plan approval number(s)
- b. Operating permit number
- c. Applicable federal subpart(s) (i.e. 40 CFR 60, Subpart JJJJ)
- d. Special purpose(s) (Consent Order, RFD, RACT II, Tier II, etc.)

(c) Mail all paper submissions to both the PSIMS Administrator and the Air Quality Program Manager for the Southeast Regional Office. Mailing addresses are provided below.

Central Office  
 Pennsylvania Department of Environmental Protection  
 Attn: PSIMS Administrator  
 P.O. Box 8468  
 Harrisburg, PA 17105-8468

Southeast Region  
 Pennsylvania Department of Environmental Protection  
 Attn: Air Quality Program Manager  
 2 East Main Street  
 Norristown, PA 19401

(d) Eliminate shading, color ink for data emphasis, small font size, and color saturation as the scanning to create an electronic file is done in black and white. Shading and color emphasis do not scan well and make the electronic copies difficult to read.

**SECTION C. Site Level Plan Approval Requirements**

(e) Email all electronic submissions to both the PSIMS Administrator in Central Office and the Air Quality Program Manager for the Southeast Regional Office. Email addresses are provided below.

Central Office  
RA-EPstacktesting@pa.gov

Southeast Region  
RA-EPSEstacktesting@pa.gov

(f) The Department limits emails to 15 MB and PSIMS has a file size limitation of 100 MB for electronic files. Submit just one electronic file (convert any Microsoft Word or Excel files to an Adobe PDF format and combine them with the report or protocol), unless the submission contains CONFIDENTIAL information.

(g) If confidential information must be submitted, submit both a public copy, which has been redacted, and a confidential copy. The cover page of each submittal should state whether it is a "Public Copy" or "Confidential Copy" and each page of the latter must be marked "CONFIDENTIAL".

**III. MONITORING REQUIREMENTS.**

**# 012 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.511.]

(a) The permittee shall monitor the facility, once per operating day, for the following:

- (1) odors which may be objectionable (as per 25 Pa. Code §123.31);
- (2) visible emissions (as per 25 Pa. Code §§123.41 and 123.42); and
- (3) fugitive particulate matter (as per 25 Pa. Code §§ 123.1 and 123.2).

(b) Objectionable odors, which may cause annoyance or discomfort to the public noticed at the site property boundaries that are caused or may be caused by operations at the site, as well as fugitive particulate emissions that originated on-site and cross the property line, and visible emissions that originated on site shall:

- (1) be investigated;
- (2) be reported to the facility management, or individual(s) designated by the permittee;
- (3) have appropriate corrective action taken (for emissions that originate on-site); and
- (4) be recorded in a permanent written log.

**# 013 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

Visible emissions may be measured using either of the following:

- (1) A device approved by the Department and maintained to provide accurate opacity measurements.
- (2) Observers, trained and qualified to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

**IV. RECORDKEEPING REQUIREMENTS.**

**# 014 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

Within thirty (30) days after permit issuance the permittee shall submit, to the Department for approval, the proposed recordkeeping formats required in this plan approval.

**# 015 [25 Pa. Code §127.12b]**

**Plan approval terms and conditions.**

The permittee shall maintain records of all the facility's increases of emissions from the following categories:



**SECTION C. Site Level Plan Approval Requirements**

- (a) emissions increase of minor significance without notification to the Department.
- (b) de minimis increases with notification to the Department, via letter.
- (c) increases resulting from a Request for Determination (RFD) to the Department.
- (d) increases resulting from the issuance of a plan approval and subsequent operating permit.

**# 016 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall maintain a record of all monitoring of fugitive emissions, visible emissions and odors, including those that deviate from the conditions found in this permit. The record of deviations shall contain, at a minimum, the following items:

- (a) date, time, and location of the incident(s);
- (b) the cause of the event; and
- (c) the corrective action taken, if necessary, to abate the situation and prevent future occurrences.

**# 017 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Source owners or operators shall maintain and make available upon request by the Department records including computerized records that may be necessary to comply with 25 Pa. Code §§ 135.3 and 135.21 (relating to reporting; and emission statements). These may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions. If direct recordkeeping is not possible or practical, sufficient records shall be kept to provide the needed information by indirect means.

**# 018 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall maintain a record of the monitoring conducted to determine the presence of malodors, fugitive particulate emissions and visible emissions.

(b) This recordkeeping shall contain a listing or notation of any and all sources of fugitive and visible emissions; the cause of the fugitive or visible emissions; duration of the emission; and the corrective action taken to abate the deviation and prevent future occurrences.

**# 019 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall keep a log of the dates and time of application of water to the roadways.

**# 020 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall record particulate matter emissions for the facility, as PM and PM10, on a monthly basis and as a 12-month rolling sum.

**# 021 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall calculate and record the following on a daily basis:

- (1) The amount of material processed by the 1,000-tph non-metallic mineral processing plant (Source ID: 101).
- (2) The hours of operation of the 1,000-tph non-metallic mineral processing plant (Source ID: 101).

(b) The permittee shall calculate and record following on a monthly basis and as a 12-month rolling sum:

- (1) The total amount of material processed by the 1,000-tph non-metallic mineral processing plant (Source ID: 101).
- (2) The hours of operation for the 1,000-tph nonmetallic mineral processing plant (Source ID: 101).

**SECTION C Site Level Plan Approval Requirements****V. REPORTING REQUIREMENTS.****# 022 [25 Pa. Code §127.12b]**

Plan approval terms and conditions.

[Additional authority for this permit condition is also derived from §40 CFR Part 68.]

(a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with requirements of the Clean Air Act, §40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).

(b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, §40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in §40 CFR 68.130 is present in a process in more than the threshold quantity at a facility. The permittee shall submit the RMP to the federal Environmental Protection Agency according to the following schedule and requirements:

(1) The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:

(i) Three years after the date on which a regulated substance is first listed under §40 CFR 68.130; or,

(ii) The date on which a regulated substance is first present above a threshold quantity in a process.

(2) The permittee shall submit any additional relevant information requested by the Department or EPA concerning the RMP and shall make subsequent submissions of RMPs in accordance with §40 CFR 68.190.

(3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of §40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.

(c) As used in this permit condition, the term "process" shall be as defined in §40 CFR 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

(d) If this facility is subject to §40 CFR Part 68, as part of the certification required under this permit, the permittee shall:

(1) Submit a compliance schedule for satisfying the requirements of §40 CFR Part 68 by the date specified in §40 CFR 68.10(a); or,

(2) Certify that this facility is in compliance with all requirements of §40 CFR Part 68 including the registration and submission of the RMP.

(e) If this facility is subject to §40 CFR Part 68, the permittee shall maintain records supporting the implementation of an accidental release program for five (5) years in accordance with §40 CFR 68.200.

(f) When this facility is subject to the accidental release program requirements of Section 112(r) of the Clean Air Act and §40 CFR Part 68, appropriate enforcement action will be taken by the Department if the permittee fails to register and submit the RMP or a revised plan pursuant to §40 CFR Part 68.

**# 023 [25 Pa. Code §127.12b]**

Plan approval terms and conditions.

The permittee shall submit all requests, reports, applications, submittals, and other communications to the Regional Office of the Department. The copies shall be forwarded to:

Regional Air Quality Manager  
PA Department of Environmental Protection  
2 East Main Street  
Norristown, PA 19401-4915

**SECTION C Site Level Plan Approval Requirements****# 024 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall, within two (2) hours, of becoming knowledgeable, of any occurrence, notify the Department, at (484) 250-5920, of any malfunction of the source(s) or associated air pollution control devices listed in Section A, of this permit, which results in, or may possibly result in, the emission of air contaminants in excess of the limitations specified in this permit, or regulation contained in 25 Pa. Code Article III.

(b) Malfunction(s) which occur at this facility, and pose(s) an imminent danger to public health, safety, welfare and the environment, and would violate permit conditions if the source were to continue to operate after the malfunction, shall immediately be reported to the Department by telephone at the above number.

(c) A written report shall be submitted to the Department within two (2) working days following the notification of the incident, and shall describe, at a minimum, the following:

- (1) The malfunction(s).
- (2) The emission(s).
- (3) The duration.
- (4) Any corrective action taken.

**# 025 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

If the permittee has been previously advised by the Department to submit a source report, the permittee shall submit by March 1, of each year, a source report for the preceding calendar year. The report shall include information from all previously reported sources, new sources which were first operated during the preceding calendar year, and sources modified during the same period which were not previously reported, including those sources listed in the Miscellaneous Section of this permit.

The permittee may request an extension of time from the Department for the filing of a source report, and the Department may grant the extension for reasonable cause.

**VI. WORK PRACTICE REQUIREMENTS.****# 026 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall ensure that the source(s) and air pollution control device(s), listed in Section A and Section G, where applicable, of this permit, are operated and maintained in a manner consistent with good operating and maintenance practices, and in accordance with manufacturer's specifications.

**# 027 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

A person responsible for any source specified in specified 25 Pa. Code § 123.1 shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

- (1) Use, where possible, of water or chemicals for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land.
- (2) Application of asphalt, oil, water or suitable chemicals on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.
- (3) Paving and maintenance of roadways.
- (4) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or other means.

**# 028 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall immediately, upon discovery, implement measures, which may include the application for the

## SECTION C Site Level Plan Approval Requirements

installation of an air cleaning device(s), if necessary, to reduce the air contaminant emissions to within applicable limitations, if at any time the operation of the source(s) identified in Section A of this permit, is causing the emission of air contaminants in excess of the limitations specified in, or established pursuant to, 25 Pa. Code Article III, or any other applicable rule promulgated under the Clean Air Act.

# 029 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

All trucks carrying product from the site must tarp their loads.

## VII. ADDITIONAL REQUIREMENTS.

# 030 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) If construction has not commenced before the expiration of this Plan Approval, then a new Plan Approval application must be submitted and approval obtained before construction can commence.

(b) If the construction has commenced, but cannot be completed before the expiration of this Plan Approval, an extension of the expiration date must be obtained to continue construction. To assure acceptance, a request for an extension must be postmarked at least (30) days prior to the expiration date. The Department cannot issue an extension after the expiration date. The request shall include:

- (1) A justification for the extension,
- (2) A schedule for completion of construction, and, when required by the Department,
- (3) A re-analysis if Best Available Technology (BAT) as required by 25 Pa. Code §127.12 (a)(5).

# 031 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall ensure the following:

(a) the wind speed and wind direction shall be monitored continuously each operating day, in maximum increments of 30-60 seconds, by means of an automated weather station.

(b) If at any time the automated weather station does not monitor either wind speed or wind direction, then monitoring of wind speed and/or wind direction shall be performed manually and recorded at least twice each operating day until the weather station has been repaired or replaced and has resumed monitoring the wind speed and wind direction.

(c) If the automated weather station stops monitoring or recording the wind speed or wind direction as a result of a malfunction, within two (2) hours of discovery of the malfunction, the permittee shall take steps to have the automated weather station repaired or replaced; this may involve, but not be limited to, calling a service technician or submitting an order to have the automated weather station repaired or replaced.

# 032 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) The permittee shall design and implement an air monitoring program prior to the operation of the crusher, for Department approval, to detect airborne asbestos fibers around the perimeter of the quarry prior to the operation of the crusher. The air monitoring program shall include, but not be limited to, a corrective action plan in the event airborne asbestos fibers are detected above the action level. This air monitoring will supplement, not replace, physical and visual inspection that is done in accordance with the Mining Permit.

(b) The action level are readings or calculated airborne asbestos fiber concentrations that exceed 0.01 fibers/cc.

(c) The permittee shall conduct daily air samples for the week prior to the commencement of operation of the crusher and during the first week of the operation of the crusher.

(d) Any airborne asbestos fiber levels that are found at and around the perimeter of the site, which exceed the action level expressed in paragraph (b) above, shall:

## SECTION C Site Level Plan Approval Requirements

- (1) be investigated;
- (2) be reported to the facility management, or individual(s) designated by the permittee and DEP within 24 hours at 484.250.5900
- (3) have appropriate corrective action taken; and
- (4) be recorded in a permanent written log.

(e) After two (2) weeks of daily monitoring with airborne asbestos fiber levels less than the action level, and upon the permittee's request, DEP will determine the feasibility of decreasing the monitoring frequency to weekly on operating days.

(f) After one (1) month of weekly monitoring with airborne asbestos fiber levels less than the action level, and upon the permittee's request, DEP will determine the feasibility of decreasing the frequency of monitoring to monthly on operating days.

(g) After six (6) months of monthly monitoring with airborne asbestos fiber levels less than the action level, and upon the permittee's request, DEP will determine if the monitoring may cease.

(h) The Department reserves the right to change the above monitoring requirements at any time, based on but not limited to: the review of the physical and visual inspections, asbestos sampling and testing and/or calculated asbestos airborne fiber concentrations.

Note: The permit shall calculate the estimated airborne asbestos fiber concentration on the filter sample using the following OSHA formula as per 1910 Subpart Z, Appendix B:

Where:

$$AC = ((FB/FL) - (BFB/BFL)) \times ECA / FR \times MFA \times T \times 1000$$

- AC = Airborne fiber concentration  
 FB = Total number of fibers greater than 5  $\mu$ m counted  
 FL = Total number of fields counted on the filter  
 BFB = Total number of fibers greater than 5  $\mu$ m counted in the blank  
 BFL = Total number of fields counted on the blank  
 ECA = Effective collecting area of filter (385 mm<sup>2</sup> nominal for a 25-mm filter.)  
 FR = Pump flow rate (L/min)  
 MFA = Microscope count field area (mm<sup>2</sup>). This is 0.00785 mm<sup>2</sup> for a Walton-Beckett Graticule.  
 T = Sample collection time (min)  
 1,000 = Conversion of L to cc

# 033 [25 Pa. Code §127.12b]  
 Plan approval terms and conditions.

(a) This section shall apply to any person who produces, sell, supplies, offers for sale or supply, uses, applies or transports any of the following materials:

(1) Aggregate material extracted from property where any portion of the area is located in a geographic ultramafic rock unit; or

(2) Any portion of the area has naturally-occurring asbestos, serpentine, or ultramafic rock as determined by the owner/operator, or

(3) The naturally-occurring asbestos, serpentine, or ultramafic rock is discovered by the owner/operator, a registered geologist, in the area to be disturbed after the start of any construction, grading, quarrying, or surface mining operation.

(b) The permittee must ensure that an Asbestos Dust Mitigation Plan for the operation has been:

**SECTION C: Site Level Plan Approval Requirements**

(1) Submitted to and approved by DEP before the start of any construction or grading activity; and

(2) The provisions of that dust mitigation plan are implemented at the beginning and maintained throughout the duration of the construction or grading activity.

(c) All parties involved in the collection, processing, and analysis of potential asbestos containing aggregate shall implement the following guidelines specified in EPA's Method 435 to ensure more accurate and repeatable M435 asbestos content measurements which ultimately lead to better-informed decisions regarding naturally occurring asbestos related projects.

(1) Increase the number of random (grab) samples for each test in situations of observed heterogeneity. (M435 requires a minimum of three grab samples).

(2) If sampling from piles, use insertion tubes instead of round point shovels or use a front loader to obtain a smaller sample from various levels and locations of the larger pile before subsampling.

(3) Choose to sample aggregates on conveyor belts closest to the final product rather than piles if at all possible.

(4) Aim for a field sample volume of approximately two to three liters.

**# 034 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.670]  
Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants  
Applicability and designation of affected facility.**

The sources and equipment (i.e., crushers, feeders, conveyors, etc.) comprising the 1,00-tph non-metallic mineral processing plant (Source ID: 101) at the Richard E. Pierson Material Corp - Hanson Quarry are subject to 40 C.F.R. 60, Subpart OOO - Standards of Performance for Nonmetallic Processing Plants.

**VIII. COMPLIANCE CERTIFICATION.**

No additional compliance certifications exist except as provided in other sections of this plan approval including Section B (relating to Plan Approval General Requirements).

**IX. COMPLIANCE SCHEDULE.**

No compliance milestones exist.

**SECTION D: Source Level Plan Approval Requirements**

Source ID: 101

Source Name: 1,000-TPH NON-METALLIC MINERAL PROCESSING PLANT

Source Capacity/Throughput: 1,000.000 Tons/HR DIABASE STONE

**I. RESTRICTIONS.****Operation Hours Restriction(s).**

# 001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The total hours of operation for the 1,000-tph non-metallic mineral processing plant (Source ID: 101) shall not exceed 2,800 hours per year as a 12-month rolling sum.

**Throughput Restriction(s).**

# 002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) The maximum rated capacity of the 1,000-tph non-metallic mineral processing plant (Source ID: 101) is 1,006 tons per hour (TPH).

(b) The hourly throughput of stone through the 1,000-tph non-metallic mineral processing plant (Source ID: 101) shall not exceed the rated capacity.

**II. TESTING REQUIREMENTS.**

# 003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) The permittee shall perform a stack test using the Department-approved procedures, to show compliance with the emission limits set for the source. The Source testing shall be performed within 180 days after the completion of Phase I. Source testing shall be performed for the following pollutants: visible emissions/opacity. Performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department.

(b) At least thirty (30) days prior to the test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.

(c) The test shall, at a minimum, test for visible emissions/opacity. Tests shall be conducted in accordance with the provisions of 40 CFR § 60.675 and Method 9 (Visual Opacity) or other Department approved methodology and 25 Pa. Code Chapter 139.

(d) At least thirty (30) days prior to the test, the Regional Air Quality Manager, shall be informed of the date and time of the test.

(e) Within sixty (60) days after the source test(s), two copies of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.

(f) In the event that any of the above deadlines cannot be met, the permittee may request an extension for the due date(s) in writing and include a justification for the extension. The Department may grant an extension for a reasonable cause.

**III. MONITORING REQUIREMENTS.**

# 004 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

## SECTION ID: Source Level Plan Approval Requirements

The permittee shall monitor the hours of operation of the 1,000-tph non-metallic mineral processing plant (Source ID: 101) on a daily basis.

# 005 [25 Pa. Code §127.12b]  
Plan approval terms and conditions.

The permittee shall monitor the PMPM10\* emissions from the 1,000-tph non-metallic mineral processing plant (Source ID: 101) on a monthly basis.

[Note: \*total particulate matter (PM) and particulate matter less than 10 microns (PM10).]

# 006 [25 Pa. Code §127.12b]  
Plan approval terms and conditions.

The permittee shall monitor the visible and fugitive particulate emissions from the plant on a daily basis, when the plant is in operation.

# 007 [25 Pa. Code §127.12b]  
Plan approval terms and conditions.

On a daily basis, the permittee shall monitor the throughput of stone through the 1,000-tph non-metallic mineral processing plant (Source ID: 101).

## IV. RECORDKEEPING REQUIREMENTS.

# 008 [25 Pa. Code §127.12b]  
Plan approval terms and conditions.

The permittee shall record the PMPM10\* emissions from the 1,000-tph non-metallic mineral processing plant (Source ID: 101) on a monthly basis.

[Note: \*total particulate matter (PM) and particulate matter less than 10 microns (PM10).]

# 009 [25 Pa. Code §127.12b]  
Plan approval terms and conditions.

The permittee shall record the hours of operation of the 1,000-tph non-metallic mineral processing plant (Source ID: 101) on a daily basis.

# 010 [25 Pa. Code §127.12b]  
Plan approval terms and conditions.

The permittee shall keep records of the daily visible and fugitive particulate emissions readings from the non-metallic mineral processing plant when in operation.

# 011 [25 Pa. Code §127.12b]  
Plan approval terms and conditions.

On a daily basis, the permittee shall calculate and record the throughput of stone through the 1,000-tph non-metallic mineral processing plant (Source ID: 101) on an average hourly basis.

## V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

## VI. WORK PRACTICE REQUIREMENTS.

# 012 [25 Pa. Code §127.12b]  
Plan approval terms and conditions.

(a) The wet dust suppression system (WDSS) (Source ID: C101) associated with the 1,000-tph non-metallic mineral processing plant (Source ID: 101) shall be operated on any and all occasions that the 1,000-tph non-metallic mineral processing plant (Source ID: 101) is operated, except in those unusual circumstances where processed materials contain



**SECTION D. Source Level Plan Approval Requirements**

sufficient moisture such that operation of the 1,000-tph non-metallic processing plant (Source ID: 101) without the simultaneous operation of the WDSS (Source ID: C101) can take place without creating fugitive emissions in excess of the limitations specified in this permit. If, however, the WDSS (Source ID: C101) associated with the 1,000-tph non-metallic mineral processing plant (Source ID: 101) is incapable of operation due to weather conditions or any other reason, the associated sources may not be operated at all.

(b) The WDSS (Source ID: C101) shall be operated efficiently and shall not at any time cause the emission of fugitive air contaminants from the controlled sources in excess of the limitations specified in 25 Pa. Code § 123.1.

# 013 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Prior to any addition of sources to or modification of the 1,000-tph non-metallic mineral processing plant (Source ID: 101), except as provided for in 40 C.F.R. Section 60.670(d), the permittee shall either submit a Request for Determination of Requirement for Plan Approval/Operating Permit (RFD) or submit a Plan Approval application, whichever is appropriate.

# 014 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Particulate matter emissions from the 1,000-tph non-metallic mineral processing plant (Source ID: 101) shall be controlled by the wet dust suppression system (WDSS) (Source ID: C101) that shall be equipped with two (2) dust suppression tanks.

(1) The dust suppression tank 1 will be employed in Zone 1 and Zone 2 during construction Phase I and the WDSS shall be equipped with forty-eight (48) nozzles and a gauge to monitor the water flow rate. During Phase I, the water flow rate for the WDSS shall be in the range 1.0 to 41.53 gallons per minute.

(2) The dust suppression tank 2 will be employed in Zone 3 and Zone 4 during construction Phase II and the WDSS shall be equipped with one hundred thirty-six (136) nozzles and a gauge to monitor the water flow rate. During Phase II, the water flow rate for the WDSS shall be in the range 1.0 to 113.09 gallons per minute.

**VII. ADDITIONAL REQUIREMENTS.**

# 015 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Source and equipment associated with the 1,000-tph non-metallic mineral processing plant (Source ID: 101) will be installed in two phases.

(a) Sources and equipment to be constructed during Phase I and permitted under this plan approval include the following:

- (1) Metso C140 jaw crusher (primary)
- (2) C1 Conveyor
- (3) C2 Conveyor
- (4) 7' x 16' 3-deck scalping screen
- (5) C3 Conveyor
- (6) C5 Conveyor
- (7) C6 Conveyor
- (8) C4 Conveyor
- (9) C7 Conveyor
- (10) C8 Conveyor

(b) Sources and equipment to be constructed during Phase II and permitted under this plan approval include the following:

- (1) 36" x 32' C14 Conveyor
- (2) 36" x 92' C15 Conveyor
- (3) 36" x 70' C16 Conveyor
- (4) Metso HP400 cone crusher (secondary)
- (5) 48' x 256' C13 Conveyor
- (6) two (2) 8' x 24' 4-deck screens

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- (7) 30" x 120' C24 Conveyor
- (8) two (2) 42" x 180' C12A and C12B Conveyors
- (9) 30" x 50' C26 Conveyor
- (10) Metso HP400 cone crusher (tertiary) (std. fines)
- (11) Metso HP400 cone crusher (quaternary) (sh. medium)
- (12) two (2) 8' x 24' 4-deck sizing screens
- (13) two (2) 48" x 30' fines C25A and C25B Conveyors
- (14) 48" x 256' C13 Conveyor
- (15) 48" x 100' C11 Conveyor
- (16) Metso GP300S cone crusher (extra course)
- (17) 5' x 14' 2-deck screen
- (18) 48" x 140' C10 Conveyor
- (19) 36" x 32' C14 Conveyor
- (20) 36" x 92' C15 Conveyor
- (21) 36" x 70' C16 Conveyor
- (22) 36" x 42' C17 Conveyor
- (23) 36" x 116' C18 Conveyor
- (24) 36" x 70" C19 Conveyor
- (25) 30" x 51' C20 Conveyor
- (26) 30" x 100' C21 Conveyor
- (27) 30" x 32" C22 Conveyor
- (28) 30" x 340' C23 Conveyor
- (29) 30" x 136' C24 Conveyor
- (30) 30" x 50' C27 (bypass) Conveyor
- (31) 30" x 100' C28 Radial Stacker Conveyor
- (32) 30" x 100' C29 Radial Stacker Conveyor
- (33) 30" x 100' C30 Radial Stacker Conveyor
- (34) 30" x 100' C31 Radial Stacker Conveyor

**# 016 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.670]**  
**Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants**  
**Applicability and designation of affected facility.**

(a) The provisions of Subpart OOO are applicable to the following affected facilities in fixed or portable nonmetallic mineral processing plants: each crusher, grinding mill, screening operation, bucket elevator, belt conveyor, bagging operation, storage bin, enclosed truck or railcar loading station.

(b) The owner or operator shall comply with all conditions of 40 CFR 60, Subpart OOO where applicable. Whenever a conflict occurs, with any of the regulations listed below, the owner or operator shall, in all cases, meet the more stringent requirement of 25 Pa. Code §§ 123.1, 123.2, and 123.13(c).

**# 017 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.670]**  
**Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants**  
**Applicability and designation of affected facility.**

(a) When an existing facility is replaced by a piece of equipment of equal or smaller size, as defined in 40 CFR § 60.671, having the same function as the existing facility, and there is no increase in the amount of emissions, the new facility is exempt from the provisions of 40 CFR §§ 60.672, 60.674, and 60.675 except as provided for in paragraph (c).

(b) An owner or operator complying with paragraph (a) shall submit the information required in 40 CFR § 60.676(a).

(c) An owner or operator replacing all existing facilities in a production line with new facilities does not qualify for the exemption described in paragraph (a) and must comply with the provisions of 40 CFR §§ 60.672, 60.674 and 60.675.

**# 018 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.672]**  
**Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants**  
**Standard for particulate matter.**

**SECTION D. Source Level Plan Approval Requirements**

(a) Affected facilities must meet the fugitive emission limits and compliance requirements in Table 3 of Subpart 000 within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under 40 CFR § 60.11. The requirements in Table 3 of Subpart 000 apply for fugitive emissions from affected facilities without capture systems and for fugitive emissions escaping capture systems.

(b) Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of Subpart 000.

(c) If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in paragraphs (a) and (b), or the building enclosing the affected facility or facilities must comply with the following emission limits:

(1) Fugitive emissions from the building openings (except for vents as defined in 40 CFR § 60.671) must not exceed 7 percent opacity, and

(2) Vents (as defined in 40 CFR § 60.671) in the building must meet the applicable stack emission limits and compliance requirements in Table 2 of Subpart 000.

**# 019 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.674]  
Subpart 000 - Standards of Performance for Nonmetallic Mineral Processing Plants  
Monitoring of operations.**

(a) The owner or operator of any affected facility for which construction, modification, or reconstruction commenced on or after April 22, 2008, that uses wet suppression to control emissions from the affected facility must perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression system. The owner or operator must initiate corrective action within 24 hours and complete corrective action as expeditiously as practical if the owner or operator finds that water is not flowing properly during an inspection of the water spray nozzles. The owner or operator must record each inspection of the water spray nozzles, including the date of each inspection and any corrective actions taken, in the logbook required under 40 CFR § 60.676(b).

[Compliance with the daily monitoring required under Source C101 assures compliance with paragraph (a) of this condition.]

(1) If an affected facility relies on water carryover from upstream water sprays to control fugitive emissions, then that affected facility is exempt from the 5-year repeat testing requirement specified in Table 3 of this subpart provided that the affected facility meets the criteria in paragraphs (1)(i) and (ii):

(i) The owner or operator of the affected facility conducts periodic inspections of the upstream water spray(s) that are responsible for controlling fugitive emissions from the affected facility. These inspections are conducted according to paragraph (a) and 40 CFR § 60.676(b), and

(ii) The owner or operator of the affected facility designates which upstream water spray(s) will be periodically inspected at the time of the initial performance test required under 40 CFR § 60.11 and 40 CFR § 60.675.

(2) If an affected facility that routinely uses wet suppression water sprays ceases operation of the water sprays or is using a control mechanism to reduce fugitive emissions other than water sprays during the monthly inspection (for example, water from recent rainfall), the logbook entry required under 40 CFR § 60.676(b) must specify the control mechanism being used instead of the water sprays.

**# 020 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.675]  
Subpart 000 - Standards of Performance for Nonmetallic Mineral Processing Plants  
Test methods and procedures.**

(a) Method 9 of appendix A-4 of this part and the procedures in 40 CFR § 60.11 shall be used to determine opacity.

(b) When determining compliance with the fugitive emissions standard for any affected facility described under 40 CFR §§ 60.672(b) or 60.672(e)(1), the duration of the Method 9 (40 CFR part 60, appendix A-4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable fugitive emission limits in Table 3 of Subpart 000 must be based

## SECTION D. Source Level Plan Approval Requirements

on the average of the five 6-minute averages.

(c) To demonstrate compliance with the fugitive emission limits for buildings specified in 40 CFR § 60.672(e)(1), the owner or operator must complete the testing specified in paragraph (c)(1). Performance tests must be conducted while all affected facilities inside the building are operating.

(1) If the building encloses any affected facility that commences construction, modification, or reconstruction on or after April 22, 2008, the owner or operator of the affected facility must conduct an initial Method 9 (40 CFR part 60, appendix A-4) performance test according to Subpart OOO and 40 CFR § 60.11.

(d) The owner or operator may use the following as alternatives to the reference methods and procedures specified in Subpart OOO:

(1) If emissions from two or more facilities continuously interfere so that the opacity of fugitive emissions from an individual affected facility cannot be read, either of the following procedures may be used:

(i) Use for the combined emission stream the highest fugitive opacity standard applicable to any of the individual affected facilities contributing to the emissions stream.

(ii) Separate the emissions so that the opacity of emissions from each affected facility can be read.

(2) A single visible emission observer may conduct visible emission observations for up to three fugitive, stack, or vent emission points within a 15-second interval if the following conditions are met:

(i) No more than three emission points may be read concurrently.

(ii) All three emission points must be within a 70 degree viewing sector or angle in front of the observer such that the proper sun position can be maintained for all three points.

(iii) If an opacity reading for any one of the three emission points equals or exceeds the applicable standard, then the observer must stop taking readings for the other two points and continue reading just that single point.

**# 021 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.676]  
Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants  
Reporting and recordkeeping.**

The owner or operator of any affected facility shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in 40 CFR § 60.672, including reports of opacity observations made using Method 9 (40 CFR part 60, appendix A-4) to demonstrate compliance with 40 CFR § 60.672(b).

**# 022 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.676]  
Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants  
Reporting and recordkeeping.**

(a) Each owner or operator seeking to comply with 40 CFR § 60.670(d) shall submit to the Administrator the following information about the existing facility being replaced and the replacement piece of equipment.

(1) For a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station:

(i) The rated capacity in megagrams or tons per hour of the existing facility being replaced and

(ii) The rated capacity in tons per hour of the replacement equipment.

(2) For a screening operation:

(i) The total surface area of the top screen of the existing screening operation being replaced and

(ii) The total surface area of the top screen of the replacement screening operation.

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(3) For a conveyor belt:

- (i) The width of the existing belt being replaced and
- (ii) The width of the replacement conveyor belt.

(4) For a storage bin:

- (i) The rated capacity in megagrams or tons of the existing storage bin being replaced and
- (ii) The rated capacity in megagrams or tons of replacement storage bins.

(b) Owners or operators of affected facilities, as defined in 40 CFR § 60.670 and 40 CFR § 60.671, for which construction, modification, or reconstruction commenced on or after April 22, 2008, must record each periodic inspection required under 40 CFR § 60.674(b) or (c), including dates and any corrective actions taken, in a logbook (in written or electronic format). The owner or operator must keep the logbook onsite and make hard or electronic copies (whichever is requested) of the logbook available to the Administrator upon request.

(c) A notification of the actual date of initial startup of each affected facility shall be submitted to the Administrator.

**# 023 [40 CFR Part 60-Standards of Performance for New Stationary Sources §40 CFR Part 60 Subpart 000 Table 3]  
Subpart 000 - Standards of Performance for Nonmetallic Mineral Processing Plants  
Fugitive Emission Limits**

(a) For affected facilities (as defined in 40 CFR § 60.670 and 40 CFR § 60.671) that commence construction, modification, or reconstruction on or after April 22, 2008, the owner or operator must meet the fugitive emissions limit of 7 percent opacity for the following: grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations or from any other affected facility (as defined in 40 CFR § 60.670 and 40 CFR § 60.671).

(b) The owner or operator must meet the fugitive emissions limit of 12 percent opacity for crushers at which a capture system is not used.

(c) The owner or operator must demonstrate compliance with these limits by conducting an initial performance test according to 40 CFR § 60.11 and 40 CFR § 60.675; and periodic inspections of water sprays according to 40 CFR § 60.674(b) and 40 CFR § 60.676(b).

**SECTION D Source Level Plan Approval Requirements**

Source ID: C101

Source Name: WET DUST SUPPRESSION SYSTEM

Source Capacity/Throughput:

N/A

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**II. TESTING REQUIREMENTS.**

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**III. MONITORING REQUIREMENTS.**

#001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) The water flow rate shall be monitored daily.

(b) The wet dust suppression system (WDSS) (Source ID: C101) shall be inspected daily, when the 1,000-tph non-metallic mineral processing plant (Source ID: 101) is operating, to include but not limited to, the following:

- (1) spray nozzles for plugging, alignment and physical condition (i.e., broken nozzles).
- (2) hoses for condition (i.e., cracks or holes), leaks and loose hose clamps.

**IV. RECORDKEEPING REQUIREMENTS.**

#002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall record the following on a daily basis when the 1,000-tph non-metallic mineral processing plant (Source ID: 101) is operating:

- (a) the results of the inspection of the wet dust suppression system (WDSS) (Source ID: C101), as required in Condition #001.
- (b) the results of the gauge readings of the water flow rate from the Dust Suppression Tanks 1 and 2, as appropriate and as required in Condition #006.
- (c) the following records shall be kept if any components of the WDSS malfunction:
  - (1) the date, time, and type of malfunction
  - (2) the cause of the malfunction
  - (3) the corrective actions taken to correct the malfunction
  - (4) date, time and component replaced as a result of this inspection

**V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION D: Source Level Plan Approval Requirements****VI. WORK PRACTICE REQUIREMENTS.**

**# 003 [25 Pa. Code §127.12b]**  
Plan approval terms and conditions.

- (a) The permittee shall keep spare parts for the wet dust suppression system (WDSS) (Source ID: C101) on site.
- (b) Malfunctioning components of the WDSS (Source ID: C101), identified during the daily inspection, shall be replaced immediately.

**# 004 [25 Pa. Code §127.12b]**  
Plan approval terms and conditions.

The 1,000-tph non-metallic mineral crushing plant (Source ID: 101), including any individual source within the 1,000-tph non-metallic mineral crushing plant (Source ID: 101), shall not be operated if any component of the wet dust suppression system (WDSS) (Source ID: C101) fails to work, malfunctions, or operates with reduced control efficiency.

**# 005 [25 Pa. Code §127.12b]**  
Plan approval terms and conditions.

(a) The wet dust suppression system (WDSS) (Source ID: C101) associated with the 1,000-tph non-metallic mineral processing plant (Source ID: 101) shall be operated on any and all occasions that the 1,000-tph non-metallic mineral processing plant (Source ID: 101) is operated, except in those unusual circumstances where processed materials contain sufficient moisture such that operation of the 1,000-tph non-metallic processing plant (Source ID: 101) without the simultaneous operation of the WDSS (Source ID: C101) can take place without creating fugitive emissions in excess of the limitations specified in this permit. If, however, the WDSS (Source ID: C101) associated with the 1,000-tph non-metallic mineral processing plant (Source ID: 101) is incapable of operation due to weather conditions or any other reason, the associated sources may not be operated at all.

(b) The wet dust suppression system (WDSS) (Source ID: C101) shall be operated efficiently and shall not at any time cause the emission of fugitive air contaminants from the controlled sources in excess of the limitations specified in 25 Pa. Code § 123.1

**VII. ADDITIONAL REQUIREMENTS.**

**# 006 [25 Pa. Code §127.12b]**  
Plan approval terms and conditions.

The wet dust suppression system (WDSS) (Source ID: C101) will be equipped with two (2) dust suppression tanks.

(1) Dust suppression tank 1 will be employed in Zone 1 and Zone 2 during construction Phase I and the WDSS shall be equipped forty-eight (48) nozzles and a gauge to monitor the water flow rate. During Phase I, the water flow rate for the WDSS shall be in the range 1.0 to 41.53 gallons per minute.

(2) Dust suppression tank 2 will be employed in Zone 3 and Zone 4 during construction Phase II and the WDSS shall be equipped one hundred thirty-six (136) nozzles and a gauge to monitor the water flow rate. During Phase II, the water flow rate for the WDSS shall be in the range 1.0 to 113.09 gallons per minute.

SECTION E - Alternative Operation Requirements

No Alternative Operations exist for this Plan Approval facility.



SECTION F: Emission Restriction Summary

Source Id      Source Description

Site Emission Restriction Summary

Emission Limit		Pollutant
7.800 Tons/Yr	particulate matter	TSP

SECTION G Miscellaneous



\*\*\*\*\* End of Report \*\*\*\*\*

---

## **ATTACHMENT 17.2(a)**

### **Dust Suppressant Documentation**

**From:** Menghini, Michael  
**Sent:** Friday, July 18, 2008 9:05:33 AM  
**To:** Bollinger, Amiee; Stutzman, Colleen  
**Subject:** FW: Update on Dust Suppressants

-----Original Message-----

**From:** Hoyle, Susan  
**Sent:** Friday, April 12, 2002 9:23 AM  
**To:** Menghini, Michael; Bish, David; Bonga, David; Bubbenmoyer, David; Disabella, Peter; Foster, Susan; Gee, Karen; Gratzmiller, Keith; Gray, Ronald; Gustafson, Staci; Heagy, Frederick; Mclemore, Kevin; Mordosky, Ronald; Murray, Richard; Orr, James; Rebarchak, James; Roller, Richard; Stroble, William; Archambault, John; Higgins, Francis; Krueger, John; Mendicino, Michael; Ruhl, Richard; Zvirblis, Anthony  
**Cc:** Kepner, Scott; Colbert, Woodrow; Pounds, William; Sloan, Samuel; Shipman, Rick; Hayes, Joe; Socash, Stephen; Michael Silsbee (E-mail)  
**Subject:** Update on Dust Suppressants

I received an update yesterday from Dr. Silsbee of the PSU Dirt and Gravel Road Program about some new dust suppressants that are expected to be added soon to the list of approved chemicals.

The two new products are Coherex and Dustbond. The parent company is Weaverton Oil and the local distributor appears to be D & D Emulsions.

These will be in addition to the Ultrabond, which is currently on the list of approved chemicals.

Peregrine Falcons Start New Family!  
Live video/sound from the nest!  
<http://www.dep.state.pa.us/dep/falcon>

**From:** Menghini, Michael  
**Sent:** Wednesday, June 15, 2016 9:31:52 AM  
**To:** Bollinger, Amiee  
**Cc:** Latsha, Gary  
**Subject:** Dust Suppressant Info

Per your request

**Michael J. Menghini** | District Mining Manager  
Department of Environmental Protection  
Pottsville District Mining Office  
5 West Laurel Boulevard | Pottsville, PA 17901  
Phone: 570.621.3118 | Fax: 570.621.3110

[http://secure-web.cisco.com/11sekQix0B19MWA7M1kljdwALBqPFE3KfqkiPdBFqSE8I73pKJBU9Z10lc4\\_ILHtCdmVcaBjfrZ5TViXu575hypSOztzulIxFYJ0bkQ1JEQV\\_Iax1GFqECF027\\_U1Lw0v3xhgqkJK6h2fmqEOG8ZSN486oOnbyqQT95jwou\\_jUF-bnQFoeR\\_m46LA-cWQsd06S4ZnAKOzUYQm5jYVk2dfV731tcCHHRUOXcC\\_ohqxhwgH21J4Choj6EPji2hjBkJBHSS5W2I50ApnkEOP3jA4I1djcMFBMkwHd1sprPXnAA-vFvCOTJA1uWMsdG3sAP52vFV2XIaTsSdbUBKQVi6\\_wA/http%3A%2F%2Fwww.dep.pa.gov](http://secure-web.cisco.com/11sekQix0B19MWA7M1kljdwALBqPFE3KfqkiPdBFqSE8I73pKJBU9Z10lc4_ILHtCdmVcaBjfrZ5TViXu575hypSOztzulIxFYJ0bkQ1JEQV_Iax1GFqECF027_U1Lw0v3xhgqkJK6h2fmqEOG8ZSN486oOnbyqQT95jwou_jUF-bnQFoeR_m46LA-cWQsd06S4ZnAKOzUYQm5jYVk2dfV731tcCHHRUOXcC_ohqxhwgH21J4Choj6EPji2hjBkJBHSS5W2I50ApnkEOP3jA4I1djcMFBMkwHd1sprPXnAA-vFvCOTJA1uWMsdG3sAP52vFV2XIaTsSdbUBKQVi6_wA/http%3A%2F%2Fwww.dep.pa.gov)

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*Martin limestone  
w/ mineral  
JPMCC*

GE Betz, Inc.  
4636 Somerton Road  
Trevose, PA 19053  
Business telephone: (215) 355-3300

Material Safety Data Sheet  
Issue Date: 29-MAR-2002

**EMERGENCY TELEPHONE (Health/Accident): (800) 877-1940**

### 1 PRODUCT IDENTIFICATION

PRODUCT NAME:

**DUSTREAT DC9112**

PRODUCT APPLICATION AREA:

**DUST CONTROL AGENT.**

### 2 COMPOSITION / INFORMATION ON INGREDIENTS

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

**HAZARDOUS INGREDIENTS:**

This product is not hazardous as defined by OSHA regulations.

No component is considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration at OSHA thresholds for carcinogens.

### 3 HAZARDS IDENTIFICATION

\*\*\*\*\*  
**EMERGENCY OVERVIEW**

**CAUTION**

May cause slight irritation to the skin. May cause moderate irritation to the eyes. Mists/aerosols may cause irritation to upper respiratory tract.

DOT hazard is not applicable  
Emergency Response Guide is not applicable  
Odor: Sweet; Appearance: Dark Brown, Liquid

**Menghini, Michael**

---

**From:** Menghini, Michael  
**Sent:** Tuesday, February 26, 2002 8:41 AM  
**To:** 'druhlin@bellatlantic.net'  
**Subject:** Approved Dust Suppressants

Doug,

Here is the contact info I have on the two dust suppressants I discussed at the PACA mtg.:

Ultra Bond 2000

JMG Enterprises website: <http://www.jmgemulsions.com/mainpage.html>

Tech rep: John George 1-800-446-6785

Pennzsuppress D

websites: <http://www.pennzsuppress.com/index.htm> and <http://www.pennzsuppress.com/html/ingredients.htm>

Please let me know if you need any further info

Drought Information Center

Now Open! Save Water Now!

<http://www.dep.state.pa.us> (directLINK "drought")



## **Menghini, Michael**

---

**From:** Hoyle, Susan  
**Sent:** Friday, April 12, 2002 9:23 AM  
**To:** Menghini, Michael; Bish, David; Bonga, David; Bubbenmoyer, David; Disabella, Peter; Foster, Susan; Gee, Karen; Gratzmiller, Keith; Gray, Ronald; Gustafson, Staci; Heagy, Frederick; Mclemore, Kevin; Mordosky, Ronald; Murray, Richard; Orr, James; Rebarchak, James; Roller, Richard; Stroble, William; Archambault, John; Higgins, Francis; Krueger, John; Mendicino, Michael; Ruhl, Richard; Zvirblis, Anthony  
**Cc:** Kepner, Scott; Colbert, Woodrow; Pounds, William; Sloan, Samuel; Shipman, Rick; Hayes, Joe; Socash, Stephen; Michael Silsbee (E-mail)  
**Subject:** Update on Dust Suppressants

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The two new products are Coherex and Dustbond. The parent company is Weaverton Oil and the local distributor appears to be D & D Emulsions.

These will be in addition to the Ultrabond, which is currently on the list of approved chemicals.

Peregrine Falcons Start New Family!  
Live video/sound from the nest!  
<http://www.dep.state.pa.us/dep/falcon>

Ultra Bond 2000

JMG Enterprises website: <http://www.jmgemulsions.com/mainpage.html>

Tech rep; John George 1-800-446-6785

Pennzsuppress D

websites: <http://www.pennzsuppress.com/index.htm>

and

<http://www.pennzsuppress.com/html/ingredients.htm>

Please let me know if you need any further info

Drought Information Center

Now Open! Save Water Now!

<http://www.dep.state.pa.us> (directLINK "drought")

Christina:

Here are the websites for the 2 approved dust suppressants. Please call me if you have any questions.

Michael  
(570) 621-3118

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Mar 11 2002 14:35

P.1

\*\* Transmit Conf. Report \*\*

DEP DMD-POTTSVILLE OFC Fax:570-621-3110

## **Menghini, Michael**

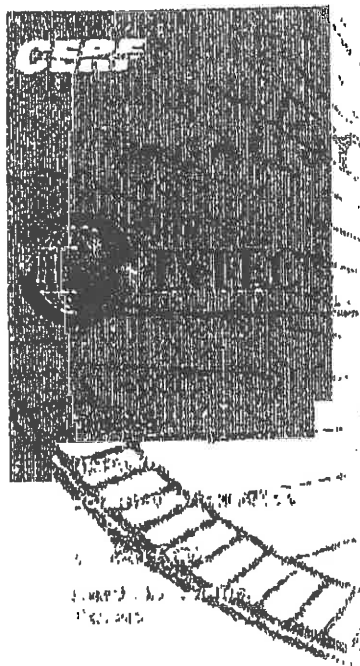
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**From:** Hoyle, Susan  
**Sent:** Tuesday, April 16, 2002 11:46 AM  
**To:** Menghini, Michael; Bish, David; Bonga, David; Bubbenmoyer, David; Disabella, Peter; Foster, Susan; Gee, Karen; Gratzmiller, Keith; Gray, Ronald; Gustafson, Staci; Heagy, Frederick; Mclemore, Kevin; Mordosky, Ronald; Murray, Richard; Orr, James; Rebarchak, James; Roller, Richard; Stroble, William; Archambault, John; Higgins, Francis; Krueger, John; Mendicino, Michael; Ruhl, Richard; Zvirblis, Anthony  
**Cc:** Kepner, Scott  
**Subject:** Contact Information for D&D Emulsions and Weavertown Group

The contact information for the Dustbond and Coherex dust suppressants is as follows:

D&D Emulsions Inc.  
Attention: Dave Scott  
270 Park Avenue East  
PO Box 1706  
Mansfield, OH 44901  
419-522-9440

Weavertown Group  
Donald Fuch, President & CEO  
201 South Johnson Road  
Houston, PA 15342  
724-746-4850 ext. 1111

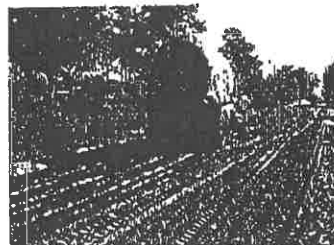


## Evaluations

### Dust Control/Road Stabilization Agents last updated 04/01

#### Project Description

CERF is seeking vendors to participate in a group evaluation of various dust suppression and roadway stabilization products to assess both performance and potential environmental impacts of their use. HITEC will be evaluating the performance aspect of the products, while EvTEC will oversee the evaluation of environmental impacts. As part of the evaluation, in-service demonstrations will be conducted throughout the country in order to gather a broad range of data on how these products perform in different regions, climates, and soil types.



#### Evaluation Status

To date, four companies have signed on for the evaluation, with a total of five different dust suppression/stabilization products to be evaluated. Vendors who are interested in participating in this effort are encouraged to contact EvTEC for more details. The Final Evaluation Plan is complete and the project is moving into the testing phase for this verification. A total of six demonstration sites from across the country have been identified.

#### Product Description

**Calcium Chloride from General Chemical** Calcium Chloride has long been used in cost-effective road maintenance programs. General Chemical's calcium chloride is provided as a 35% liquid solution, packaged both in bulk and flake form. Calcium chloride absorbs moisture from the air, forming a clear liquid that is extremely resistant to evaporation.

**Terra Bond® from Fluid Sciences, LLC** TerraBond Poly Seal is a liquid soil-stabilizing chemical formulated to effectively seal surfaces, providing strength to virtually all

soil types. TerraBond Poly Seal is blended using combination of organic polymers.

**Soil Sement® from Midwest Industrial Supply**  
Sement is a polymer emulsion that produces effective control of dust and erosion and soil stabilization. Soil Sement generates its effectiveness from the length and strength of its polymer molecules and their ability to bond with surface materials.

**Enviro Kleen® from Midwest Industrial Supply**  
EnviroKleen is a formulated synthetic organic dust control product that is said to be nontoxic, clean, oil-sheen-free, colorless, odorless, and safe for human, animal, and plant life.

**Perma-Zyme 11X from RMI/International Enzymes Inc.**  
Perma-Zyme 11X is an organic, non-toxic multi-enzyme formulation designed to maximize compaction (increasing soil densities). It acts as a catalyst to greatly accelerate cohesive bonding of soil particles, creating a tight, permanent stratum.

#### Report Plans

The initial panel meeting was held June 2 and 3, 1999, in Washington, DC, with 15 panelists and four vendors present. The evaluation plan was completed in September 2000. The final evaluation report is tentatively scheduled for publication in early 2002 .

#### Contacts

Todd Hawkins  
Midwest Industrial Supply, Inc.  
P.O. Box 8431  
Canton, OH 44711  
phone: 800-321-0699  
fax: 330-456-3247  
todd@midwestind.com

Mike Grotefend  
Product Manager  
Fluid Sciences  
P.O. Box 81338  
Lafayette, LA 70598-1338  
phone: 318-261-0796  
fax: 318-272-0124  
mikeg@terrabond.net

Jim Shepard

General Chemical Corp.  
Delaware Development Laboratory  
6300 Philadelphia Pike  
Claymont, DE 19703  
phone: 800-422-7632 or 302-792-8591  
(voicemail - 800-631-8050 ext 7211)  
fax: 302-792-8610

Mr. Bob Calaway  
RMI Marketing, LLC.  
PO Box 953  
McLean, VA 22102  
phone: 703-759-7220  
prc.rmi@worldnet.att.net

For further information on EvTEC or this group evaluation,  
contact Jenise Dunn at 202.785.6454.

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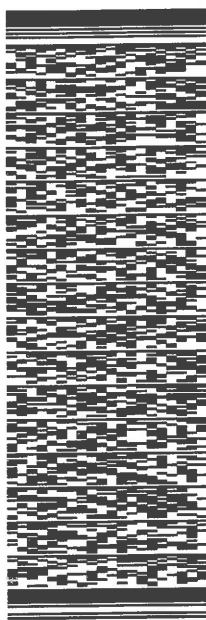
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UNITED STATES US

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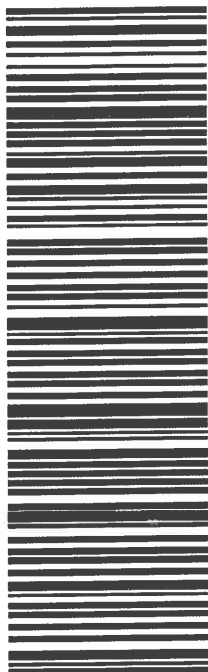
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## Gutshall, Andrew J (Allentown) USA

**From:** TrackingUpdates@fedex.com  
**Sent:** Tuesday, March 19, 2019 3:18 PM  
**To:** Gutshall, Andrew J (Allentown) USA  
**Subject:** FedEx Shipment 774730510122 Delivered

# Your package has been delivered

Tracking # 774730510122

Ship date:  
**Mon, 3/18/2019**

**Andrew Gutshall**  
Lehigh Hanson, Inc.  
Allentown, PA 18195  
US



Delivery date:  
**Tue, 3/19/2019 3:12 pm**

**Michael J. Menghini**  
PA DEP - Pottsville DMO  
5 W LAUREL BLVD  
POTTSVILLE, PA 17901  
US



## Shipment Facts

Our records indicate that the following package has been delivered.

<b>Tracking number:</b>	<a href="#">774730510122</a>
<b>Status:</b>	Delivered: 03/19/2019 3:12 PM Signed for By: J.JONES
<b>Signed for by:</b>	J.JONES
<b>Delivery location:</b>	POTTSVILLE, PA
<b>Delivered to:</b>	Receptionist/Front Desk
<b>Service type:</b>	FedEx Standard Overnight®
<b>Packaging type:</b>	FedEx® Pak
<b>Number of pieces:</b>	1
<b>Weight:</b>	2.00 lb.
<b>Special handling/Services:</b>	Deliver Weekday
<b>Standard transit:</b>	3/19/2019 by 4:30 pm

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