



**TEMPORARY REGULATION 13  
PERMIT APPLICATION  
CONSTRUCTION BY-PASS SYSTEM**

*Millville Quarry*

*Prepared for:*

**Bardon, Inc.**

6401 Golden Triangle Drive, Suite 400  
Greenbelt, Maryland 20770

*Prepared by:*

**Potesta & Associates, Inc.**

7012 MacCorkle Avenue, S.E.  
Charleston, West Virginia 25304  
Phone: (304) 342-1400 Fax: (304) 343-9031  
Email: [potesta@potesta.com](mailto:potesta@potesta.com)

Project No. 0101-17-0157-010

October 2017



**POTESTA**



# TABLE OF CONTENTS

|  |                   |
|--|-------------------|
| Application for NSR Permit.....                        | SECTION I-III     |
| Business Certificate .....                             | ATTACHMENT A      |
| Site Location Map.....                                 | ATTACHMENT B      |
| Installation/Startup Schedule .....                    | ATTACHMENT C      |
| Regulatory Discussion .....                            | ATTACHMENT D      |
| Plot Plan.....   | ATTACHMENT E      |
| Process Flow Diagram .....                             | ATTACHMENT F      |
| Process Description.....                               | ATTACHMENT G      |
| Emission Units Table.....                              | ATTACHMENT I      |
| Emission Points Data Summary Sheets .....              | ATTACHMENT J      |
| Fugitive Emissions Data Summary Sheet.....             | ATTACHMENT K      |
| Emissions Unit Data Sheets .....                       | ATTACHMENT L      |
| Supporting Emission Calculations.....                  | ATTACHMENT N      |
| Monitoring/Recordkeeping/Reporting/Testing Plans ..... | ATTACHMENT O      |
| Public Notice.....                                     | ATTACHMENT P      |
| Attachments Not Required .....                         | H, M, Q, R, and S |

**SECTION I-III**

**APPLICATION FOR NSR PERMIT**



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
**DIVISION OF AIR QUALITY**

601 57<sup>th</sup> Street, SE  
Charleston, WV 25304  
(304) 926-0475  
[www.dep.wv.gov/daq](http://www.dep.wv.gov/daq)

**APPLICATION FOR NSR PERMIT  
AND  
TITLE V PERMIT REVISION  
(OPTIONAL)**

PLEASE CHECK ALL THAT APPLY TO **NSR (45CSR13)** (IF KNOWN):

- CONSTRUCTION     MODIFICATION     RELOCATION  
 CLASS I ADMINISTRATIVE UPDATE     TEMPORARY  
 CLASS II ADMINISTRATIVE UPDATE     AFTER-THE-FACT

PLEASE CHECK TYPE OF **45CSR30 (TITLE V)** REVISION (IF ANY):

- ADMINISTRATIVE AMENDMENT     MINOR MODIFICATION  
 SIGNIFICANT MODIFICATION

IF ANY BOX ABOVE IS CHECKED, INCLUDE TITLE V REVISION INFORMATION AS **ATTACHMENT S** TO THIS APPLICATION

**FOR TITLE V FACILITIES ONLY:** Please refer to "Title V Revision Guidance" in order to determine your Title V Revision options (Appendix A, "Title V Permit Revision Flowchart") and ability to operate with the changes requested in this Permit Application.

**Section I. General**

|   |  |  |  |
|---|--|--|--|
| 1. Name of applicant (as registered with the WV Secretary of State's Office):<br>Bardon, Inc.   |  | 2. Federal Employer ID No. (FEIN):<br>54-1544548   |  |
| 3. Name of facility (if different from above):<br>Millville Quarry  |  | 4. The applicant is the:<br><input type="checkbox"/> OWNER <input type="checkbox"/> OPERATOR <input checked="" type="checkbox"/> BOTH  |  |
| 5A. Applicant's mailing address:<br>6401 Golden Triangle Drive, Suite 400<br>Greenbelt, Maryland 20770  |  | 5B. Facility's present physical address:<br>57 Blair Road<br>Harpers Ferry, West Virginia 25425  |  |
| 6. <b>West Virginia Business Registration.</b> Is the applicant a resident of the State of West Virginia? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO<br>⇒ If YES, provide a copy of the <b>Certificate of Incorporation/Organization/Limited Partnership</b> (one page) including any name change amendments or other Business Registration Certificate as <b>Attachment A</b> .<br>⇒ If NO, provide a copy of the <b>Certificate of Authority/Authority of L.L.C./Registration</b> (one page) including any name change amendments or other Business Certificate as <b>Attachment A</b> . |  |  |  |
| 7. If applicant is a subsidiary corporation, please provide the name of parent corporation: NA  |  |  |  |
| 8. Does the applicant own, lease, have an option to buy or otherwise have control of the <i>proposed site</i> ? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO<br>⇒ If YES, please explain:    Applicant owns the site.<br>⇒ If NO, you are not eligible for a permit for this source.   |  |  |  |
| 9. Type of plant or facility (stationary source) to be <b>constructed, modified, relocated, administratively updated</b> or <b>temporarily permitted</b> (e.g., coal preparation plant, primary crusher, etc.): Temporary equipment at limestone quarry.  |  | 10. North American Industry Classification System (NAICS) code for the facility:<br>212312 (1422 Sic)  |  |
| 11A. DAQ Plant ID No. (for existing facilities only):<br>037-00015  |  | 11B. List all current 45CSR13 and 45CSR30 (Title V) permit numbers associated with this process (for existing facilities only):<br>G40-C003F (G currently under review) for the Millville Quarry |  |

**All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.**

|   |   |   |
|---|---|---|
| <p>12A.</p> <p>⇒ For <b>Modifications, Administrative Updates or Temporary permits</b> at an existing facility, please provide directions to the <i>present location</i> of the facility from the nearest state road;</p> <p>⇒ For <b>Construction or Relocation permits</b>, please provide directions to the <i>proposed new site location</i> from the nearest state road. Include a <b>MAP as Attachment B</b>.</p> <p>From Charles Town, take U.S. 340 heading towards Harpers Ferry and make a right onto Blair Road. Go about 2 miles on winding road; if you get to the railroad tracks, you have gone too far. Turn right into Millville Quarry just before the railroad tracks.</p> |   |   |
| 12.B. New site address (if applicable):<br>Not Applicable (NA)  | 12C. Nearest city or town:<br>Millville | 12D. County:<br>Jefferson   |
| 12.E. UTM Northing (KM): 4,352.354  | 12F. UTM Easting (KM): 259.027          | 12G. UTM Zone: 18   |
| <p>13. Briefly describe the proposed change(s) at the facility:<br/>Temporary hopper and conveyor to by-pass construction of permanent equipment.</p>   |   |   |
| <p>14A. Provide the date of anticipated installation or change: 11/15/2017</p> <p>⇒ If this is an <b>After-The-Fact</b> permit application, provide the date upon which the proposed change did happen:     /     /</p>   |   | <p>14B. Date of anticipated Start-Up if a permit is granted:<br/>11/15/2017</p> |
| <p>14C. Provide a <b>Schedule</b> of the planned <b>Installation of/Change</b> to and <b>Start-Up</b> of each of the units proposed in this permit application as <b>Attachment C</b> (if more than one unit is involved).</p>  |   |   |
| <p>15. Provide maximum projected <b>Operating Schedule</b> of activity/activities outlined in this application:<br/>24     Hours Per Day     7     Days Per Week     26 Weeks Per Year</p>  |   |   |
| <p>16. Is demolition or physical renovation at an existing facility involved?   <input checked="" type="checkbox"/> <b>YES</b>     <input type="checkbox"/> <b>NO</b></p>   |   |   |
| <p>17. <b>Risk Management Plans.</b> If this facility is subject to 112(r) of the 1990 CAAA, or will become subject due to proposed changes (for applicability help see <a href="http://www.epa.gov/ceppo">www.epa.gov/ceppo</a>), submit your <b>Risk Management Plan (RMP)</b> to U. S. EPA Region III.</p>   |   |   |
| <p>18. <b>Regulatory Discussion.</b> List all Federal and State air pollution control regulations that you believe are applicable to the proposed process (<i>if known</i>). A list of possible applicable requirements is also included in Attachment S of this application (Title V Permit Revision Information). Discuss applicability and proposed demonstration(s) of compliance (<i>if known</i>). Provide this information as <b>Attachment D</b>.</p>   |   |   |
| <p><b>Section II. Additional attachments and supporting documents.</b></p>  |   |   |
| <p>19. Include a check payable to WVDEP – Division of Air Quality with the appropriate <b>application fee</b> (per 45CSR22 and 45CSR13).</p>  |   |   |
| <p>20. Include a <b>Table of Contents</b> as the first page of your application package.</p>  |   |   |
| <p>21. Provide a <b>Plot Plan</b>, e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is or is to be located as <b>Attachment E</b> (Refer to <b>Plot Plan Guidance</b>) .</p> <p>⇒ Indicate the location of the nearest occupied structure (e.g. church, school, business, residence).</p>  |   |   |
| <p>22. Provide a <b>Detailed Process Flow Diagram(s)</b> showing each proposed or modified emissions unit, emission point and control device as <b>Attachment F</b>.</p>  |   |   |
| <p>23. Provide a <b>Process Description</b> as <b>Attachment G</b>.</p> <p>⇒ Also describe and quantify to the extent possible all changes made to the facility since the last permit review (if applicable).</p>   |   |   |
| <p><b>All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.</b></p>   |   |   |
| <p>24. Provide <b>Material Safety Data Sheets (MSDS)</b> for all materials processed, used or produced as <b>Attachment H</b>.</p> <p>⇒ For chemical processes, provide a MSDS for each compound emitted to the air.</p>  |   |   |

|  |  |   |                                 |   |  |   |   |   |  |  |  |  |   |  |  |
|--|--|---|---------------------------------|---|--|---|---|---|--|--|--|--|---|--|--|
| 25. Fill out the <b>Emission Units Table</b> and provide it as <b>Attachment I</b> .   |  |   |                                 |   |  |   |   |   |  |  |  |  |   |  |  |
| 26. Fill out the <b>Emission Points Data Summary Sheet (Table 1 and Table 2)</b> and provide it as <b>Attachment J</b> .   |  |   |                                 |   |  |   |   |   |  |  |  |  |   |  |  |
| 27. Fill out the <b>Fugitive Emissions Data Summary Sheet</b> and provide it as <b>Attachment K</b> .  |  |   |                                 |   |  |   |   |   |  |  |  |  |   |  |  |
| 28. Check all applicable <b>Emissions Unit Data Sheets</b> listed below: <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;"><input type="checkbox"/> Bulk Liquid Transfer Operations</td> <td style="width: 33%;"><input type="checkbox"/> Haul Road Emissions</td> <td style="width: 33%;"><input type="checkbox"/> Quarry</td> </tr> <tr> <td><input type="checkbox"/> Chemical Processes</td> <td><input type="checkbox"/> Hot Mix Asphalt Plant</td> <td><input checked="" type="checkbox"/> Solid Materials Sizing, Handling and Storage Facilities</td> </tr> <tr> <td><input type="checkbox"/> Concrete Batch Plant</td> <td><input type="checkbox"/> Incinerator</td> <td><input type="checkbox"/> Storage Tanks</td> </tr> <tr> <td><input type="checkbox"/> Grey Iron and Steel Foundry</td> <td><input type="checkbox"/> Indirect Heat Exchanger</td> <td></td> </tr> <tr> <td><input type="checkbox"/> General Emission Unit, specify</td> <td></td> <td></td> </tr> </table> | <input type="checkbox"/> Bulk Liquid Transfer Operations | <input type="checkbox"/> Haul Road Emissions  | <input type="checkbox"/> Quarry | <input type="checkbox"/> Chemical Processes | <input type="checkbox"/> Hot Mix Asphalt Plant | <input checked="" type="checkbox"/> Solid Materials Sizing, Handling and Storage Facilities | <input type="checkbox"/> Concrete Batch Plant | <input type="checkbox"/> Incinerator                | <input type="checkbox"/> Storage Tanks         | <input type="checkbox"/> Grey Iron and Steel Foundry | <input type="checkbox"/> Indirect Heat Exchanger |  | <input type="checkbox"/> General Emission Unit, specify |  |  |
| <input type="checkbox"/> Bulk Liquid Transfer Operations   | <input type="checkbox"/> Haul Road Emissions             | <input type="checkbox"/> Quarry   |                                 |   |  |   |   |   |  |  |  |  |   |  |  |
| <input type="checkbox"/> Chemical Processes  | <input type="checkbox"/> Hot Mix Asphalt Plant           | <input checked="" type="checkbox"/> Solid Materials Sizing, Handling and Storage Facilities |                                 |   |  |   |   |   |  |  |  |  |   |  |  |
| <input type="checkbox"/> Concrete Batch Plant  | <input type="checkbox"/> Incinerator                     | <input type="checkbox"/> Storage Tanks  |                                 |   |  |   |   |   |  |  |  |  |   |  |  |
| <input type="checkbox"/> Grey Iron and Steel Foundry   | <input type="checkbox"/> Indirect Heat Exchanger         |   |                                 |   |  |   |   |   |  |  |  |  |   |  |  |
| <input type="checkbox"/> General Emission Unit, specify  |  |   |                                 |   |  |   |   |   |  |  |  |  |   |  |  |
| Fill out and provide the <b>Emissions Unit Data Sheet(s)</b> as <b>Attachment L</b> .  |  |   |                                 |   |  |   |   |   |  |  |  |  |   |  |  |
| 29. Check all applicable <b>Air Pollution Control Device Sheets</b> listed below: NA – No add-on control devices.  |  |   |                                 |   |  |   |   |   |  |  |  |  |   |  |  |
| <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;"><input type="checkbox"/> Absorption Systems</td> <td style="width: 33%;"><input type="checkbox"/> Baghouse</td> <td style="width: 33%;"><input type="checkbox"/> Flare</td> </tr> <tr> <td><input type="checkbox"/> Adsorption Systems</td> <td><input type="checkbox"/> Condenser</td> <td><input type="checkbox"/> Mechanical Collector</td> </tr> <tr> <td><input type="checkbox"/> Afterburner</td> <td><input type="checkbox"/> Electrostatic Precipitator</td> <td><input type="checkbox"/> Wet Collecting System</td> </tr> <tr> <td colspan="3"><input type="checkbox"/> Other Collectors, specify</td> </tr> </table>   | <input type="checkbox"/> Absorption Systems              | <input type="checkbox"/> Baghouse   | <input type="checkbox"/> Flare  | <input type="checkbox"/> Adsorption Systems | <input type="checkbox"/> Condenser             | <input type="checkbox"/> Mechanical Collector   | <input type="checkbox"/> Afterburner          | <input type="checkbox"/> Electrostatic Precipitator | <input type="checkbox"/> Wet Collecting System | <input type="checkbox"/> Other Collectors, specify   |  |  |   |  |  |
| <input type="checkbox"/> Absorption Systems  | <input type="checkbox"/> Baghouse                        | <input type="checkbox"/> Flare  |                                 |   |  |   |   |   |  |  |  |  |   |  |  |
| <input type="checkbox"/> Adsorption Systems  | <input type="checkbox"/> Condenser                       | <input type="checkbox"/> Mechanical Collector   |                                 |   |  |   |   |   |  |  |  |  |   |  |  |
| <input type="checkbox"/> Afterburner   | <input type="checkbox"/> Electrostatic Precipitator      | <input type="checkbox"/> Wet Collecting System  |                                 |   |  |   |   |   |  |  |  |  |   |  |  |
| <input type="checkbox"/> Other Collectors, specify   |  |   |                                 |   |  |   |   |   |  |  |  |  |   |  |  |
| Fill out and provide the <b>Air Pollution Control Device Sheet(s)</b> as <b>Attachment M</b> .   |  |   |                                 |   |  |   |   |   |  |  |  |  |   |  |  |
| 30. Provide all <b>Supporting Emissions Calculations</b> as <b>Attachment N</b> , or attach the calculations directly to the forms listed in Items 28 through 31.  |  |   |                                 |   |  |   |   |   |  |  |  |  |   |  |  |
| 31. <b>Monitoring, Recordkeeping, Reporting and Testing Plans.</b> Attach proposed monitoring, recordkeeping, reporting and testing plans in order to demonstrate compliance with the proposed emissions limits and operating parameters in this permit application. Provide this information as <b>Attachment O</b> .<br>➤ Please be aware that all permits must be practically enforceable whether or not the applicant chooses to propose such measures. Additionally, the DAQ may not be able to accept all measures proposed by the applicant. If none of these plans are proposed by the applicant, DAQ will develop such plans and include them in the permit.  |  |   |                                 |   |  |   |   |   |  |  |  |  |   |  |  |
| 32. <b>Public Notice.</b> At the time that the application is submitted, place a <b>Class I Legal Advertisement</b> in a newspaper of general circulation in the area where the source is or will be located (See 45CSR§13-8.3 through 45CSR§13-8.5 and <b>Example Legal Advertisement</b> for details). Please submit the <b>Affidavit of Publication</b> as <b>Attachment P</b> immediately upon receipt.  |  |   |                                 |   |  |   |   |   |  |  |  |  |   |  |  |
| 33. <b>Business Confidentiality Claims.</b> Does this application include confidential information (per 45CSR31)?<br><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO<br>➤ If <b>YES</b> , identify each segment of information on each page that is submitted as confidential and provide justification for each segment claimed confidential, including the criteria under 45CSR§31-4.1, and in accordance with the DAQ's " <b>Precautionary Notice – Claims of Confidentiality</b> " guidance found in the <b>General Instructions</b> as <b>Attachment Q</b> .  |  |   |                                 |   |  |   |   |   |  |  |  |  |   |  |  |
| <b>Section III. Certification of Information</b>   |  |   |                                 |   |  |   |   |   |  |  |  |  |   |  |  |
| 34. <b>Authority/Delegation of Authority.</b> Only required when someone other than the responsible official signs the application. Check applicable <b>Authority Form</b> below: NA – Signator is a responsible official.<br><input type="checkbox"/> Authority of Corporation or Other Business Entity <input type="checkbox"/> Authority of Partnership<br><input type="checkbox"/> Authority of Governmental Agency <input type="checkbox"/> Authority of Limited Partnership<br>Submit completed and signed <b>Authority Form</b> as <b>Attachment R</b> .  |  |   |                                 |   |  |   |   |   |  |  |  |  |   |  |  |
| <b>All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.</b>   |  |   |                                 |   |  |   |   |   |  |  |  |  |   |  |  |

35A. **Certification of Information.** To certify this permit application, a Responsible Official (per 45CSR§13-2.22 and 45CSR§30-2.28) or Authorized Representative shall check the appropriate box and sign below.

**Certification of Truth, Accuracy, and Completeness**

I, the undersigned  **Responsible Official** /  **Authorized Representative**, hereby certify that all information contained in this application and any supporting documents appended hereto, is true, accurate, and complete based on information and belief after reasonable inquiry I further agree to assume responsibility for the construction, modification and/or relocation and operation of the stationary source described herein in accordance with this application and any amendments thereto, as well as the Department of Environmental Protection, Division of Air Quality permit issued in accordance with this application, along with all applicable rules and regulations of the West Virginia Division of Air Quality and W.Va. Code § 22-5-1 et seq. (State Air Pollution Control Act). If the business or agency changes its Responsible Official or Authorized Representative, the Director of the Division of Air Quality will be notified in writing within 30 days of the official change.

**Compliance Certification**

Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.

SIGNATURE \_\_\_\_\_ *S. Ward* DATE: Oct. 9, 2017  
(Please use blue ink) (Please use blue ink)

|  |                            |  |
|--|----------------------------|--|
| 35B. Printed name of signee: Stephen Ward                                |                            | 35C. Title: Vice President             |
| 35D. E-mail: stephen.ward@aggregate-us.com                               | 36E. Phone: (301) 982-1400 | 36F. FAX: (855) 293-6428               |
| 36A. Printed name of contact person (if different from above): Lisa Hunt |                            | 36B. Title: Area Environmental Manager |
| 36C. E-mail: lisa.hunt@aggregate-us.com                                  | 36D. Phone: (301) 982-1400 | 36E. FAX: (855) 293-6428               |

**PLEASE CHECK ALL APPLICABLE ATTACHMENTS INCLUDED WITH THIS PERMIT APPLICATION:**

|  |  |
|--|--|
| <input checked="" type="checkbox"/> Attachment A: Business Certificate               | <input checked="" type="checkbox"/> Attachment K: Fugitive Emissions Data Summary Sheet            |
| <input checked="" type="checkbox"/> Attachment B: Map(s)                             | <input checked="" type="checkbox"/> Attachment L: Emissions Unit Data Sheet(s)                     |
| <input checked="" type="checkbox"/> Attachment C: Installation and Start Up Schedule | <input type="checkbox"/> Attachment M: Air Pollution Control Device Sheet(s)                       |
| <input checked="" type="checkbox"/> Attachment D: Regulatory Discussion              | <input checked="" type="checkbox"/> Attachment N: Supporting Emissions Calculations                |
| <input checked="" type="checkbox"/> Attachment E: Plot Plan                          | <input checked="" type="checkbox"/> Attachment O: Monitoring/Recordkeeping/Reporting/Testing Plans |
| <input checked="" type="checkbox"/> Attachment F: Detailed Process Flow Diagram(s)   | <input checked="" type="checkbox"/> Attachment P: Public Notice                                    |
| <input checked="" type="checkbox"/> Attachment G: Process Description                | <input type="checkbox"/> Attachment Q: Business Confidential Claims                                |
| <input type="checkbox"/> Attachment H: Material Safety Data Sheets (MSDS)            | <input type="checkbox"/> Attachment R: Authority Forms   |
| <input checked="" type="checkbox"/> Attachment I: Emission Units Table               | <input type="checkbox"/> Attachment S: Title V Permit Revision Information                         |
| <input checked="" type="checkbox"/> Attachment J: Emission Points Data Summary Sheet | <input checked="" type="checkbox"/> Application Fee  |

*Please mail an original and three (3) copies of the complete permit application with the signature(s) to the DAQ, Permitting Section, at the address listed on the first page of this application. Please DO NOT fax permit applications.*

**FOR AGENCY USE ONLY – IF THIS IS A TITLE V SOURCE:**

Forward 1 copy of the application to the Title V Permitting Group and:

For Title V Administrative Amendments:

NSR permit writer should notify Title V permit writer of draft permit,

For Title V Minor Modifications:

Title V permit writer should send appropriate notification to EPA and affected states within 5 days of receipt,

NSR permit writer should notify Title V permit writer of draft permit.

For Title V Significant Modifications processed in parallel with NSR Permit revision:

NSR permit writer should notify a Title V permit writer of draft permit,

Public notice should reference both 45CSR13 and Title V permits,

EPA has 45 day review period of a draft permit.

**All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.**

**ATTACHMENT A**  
**BUSINESS CERTIFICATE**



# State of West Virginia



## Certificate

*I, Natalie E. Tennant, Secretary of State of the  
State of West Virginia, hereby certify that*

**BARDON, INC.**

**Control Number: 99R50**

a corporation formed under the laws of Maryland has filed its "Application for Certificate of Authority" to transact business in West Virginia as required by the provisions of the West Virginia Code. I hereby declare the organization to be registered as a foreign corporation from its effective date of September 23, 2011.

Therefore, I issue this

### **CERTIFICATE OF AUTHORITY**

to the corporation authorizing it to transact business in West Virginia

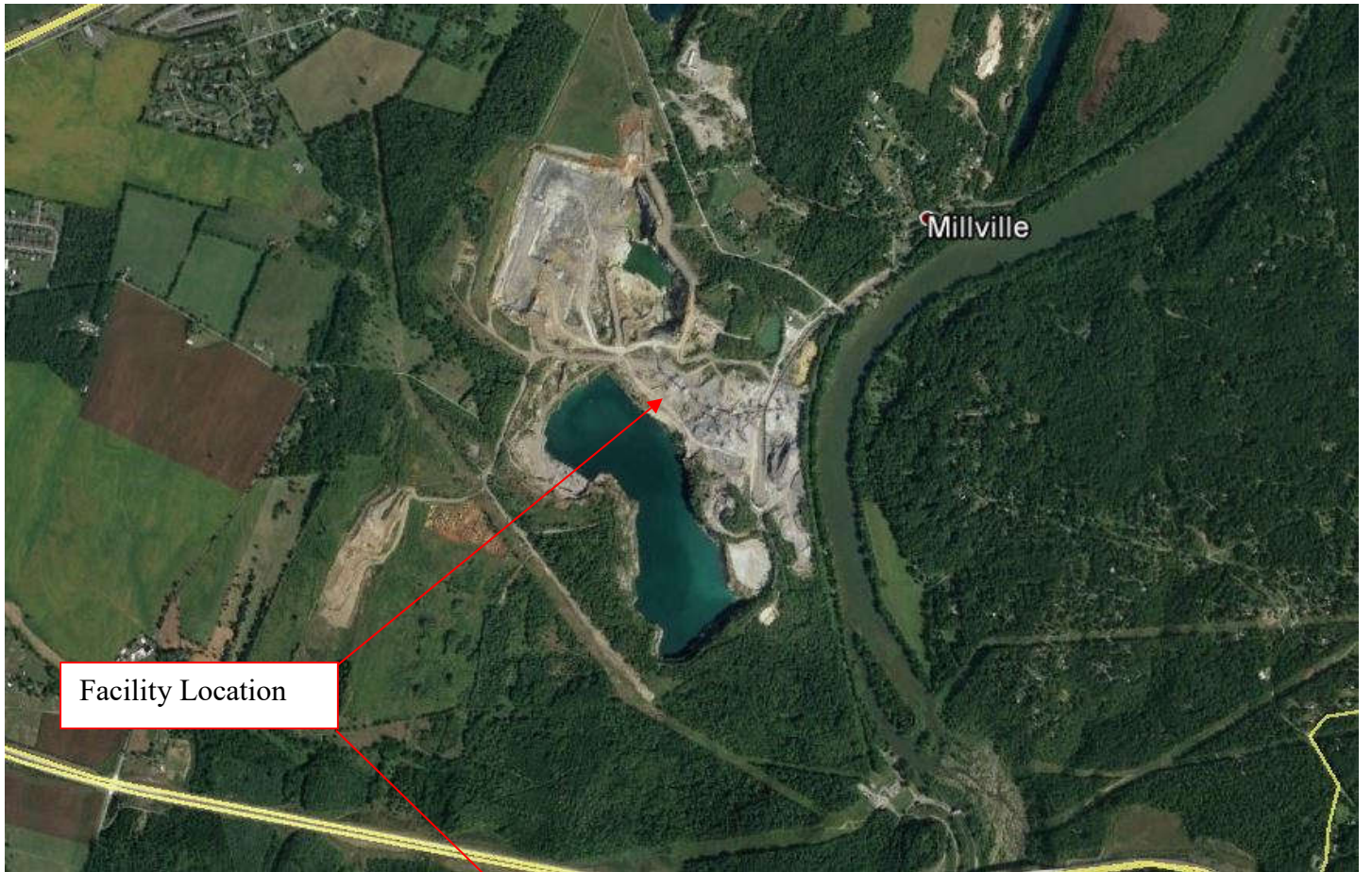


*Given under my hand and the  
Great Seal of the State of  
West Virginia on this day of  
September 23, 2011*

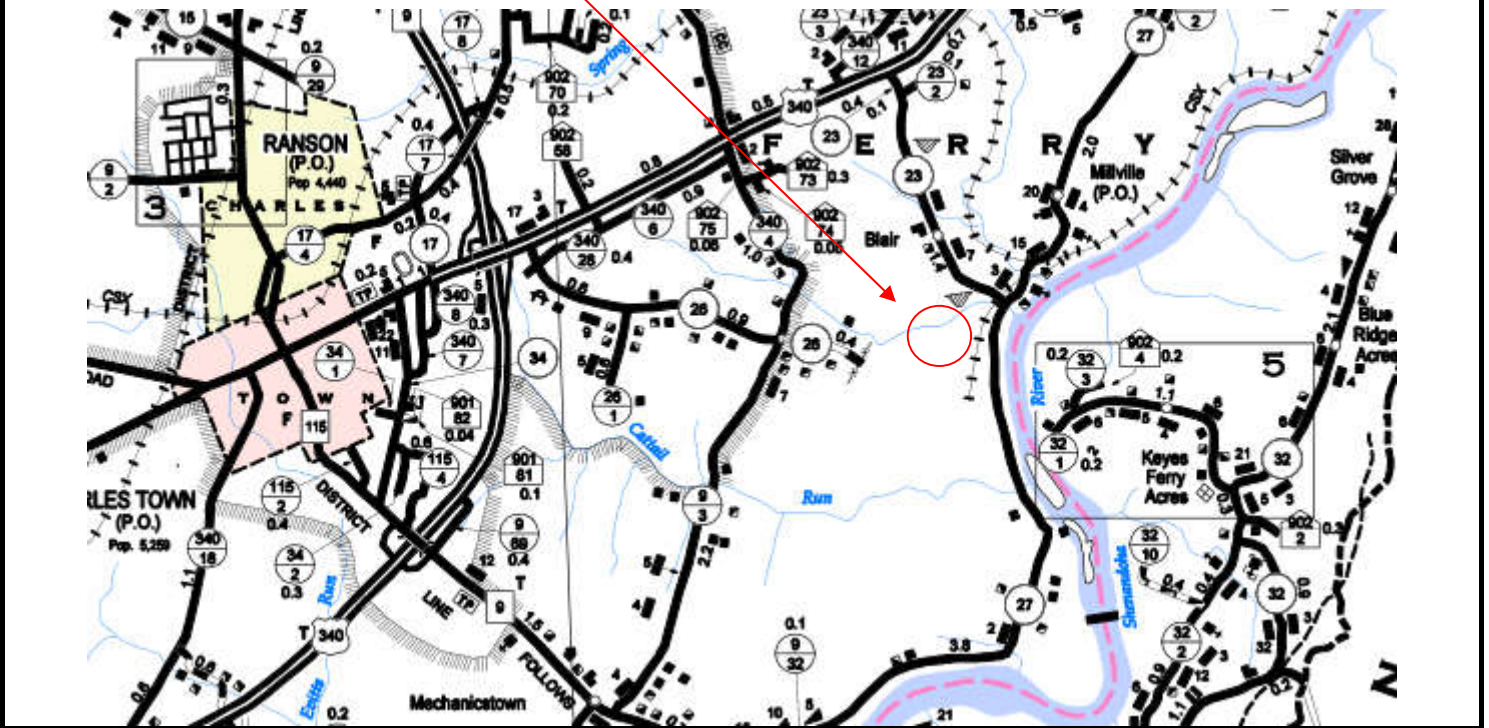
*Natalie E. Tennant*

Secretary of State

**ATTACHMENT B**  
**SITE LOCATION MAP**



Facility Location



7012 MacCorkle Avenue, S.E  
Charleston, West Virginia 25304  
Phone: (304) 342-1400  
Fax: (304) 343-9031

**Millville Quarry**  
Bardon, Inc.  
Jefferson County, West Virginia

**ATTACHMENT C**

**INSTALLATION/STARTUP SCHEDULE**

## **ATTACHMENT C**

### **INSTALLATION AND STARTUP SCHEDULE**

Construction/installation of the proposed construction by-pass system is scheduled to begin on or about November 15, 2017. Startup is scheduled to begin shortly after the completion of the installation procedures.

**ATTACHMENT D**

**REGULATORY DISCUSSION**

## **ATTACHMENT D**

### **REGULATORY DISCUSSION**

The proposed facility is required to comply with the requirements contained in the applicable provisions of (1) 45CSR7, (2) 45CSR13, (3) 45CSR16, and (4) 40CFR60, Subpart OOO.

1. 45CSR7 requires the facility to maintain fugitive dust control systems, and obtain required permits.
2. 45CSR13 requires the facility to operate within the limits of the permit and in accordance with the permit application.
3. 45CSR16 formally adopts NSPS of 45CFR60.
4. 45CFR60, Subpart OOO, requires notification of startup, operation of air pollution control equipment, and performance testing and recordkeeping. The proposed equipment is subject to Subpart OOO.

**ATTACHMENT E**

**PLOT PLAN**



| No. | Date | Revision |
|-----|------|----------|
|     |      |          |
|     |      |          |
|     |      |          |
|     |      |          |

\*-02  
 CAD File No.  
 MBS  
 Drawn  
 PEW  
 Checked  
 PEW  
 Approved  
 N.T.S.  
 Scale:  
 OCT. 2017  
 Date:  
 17-0157-010-  
 Project No.



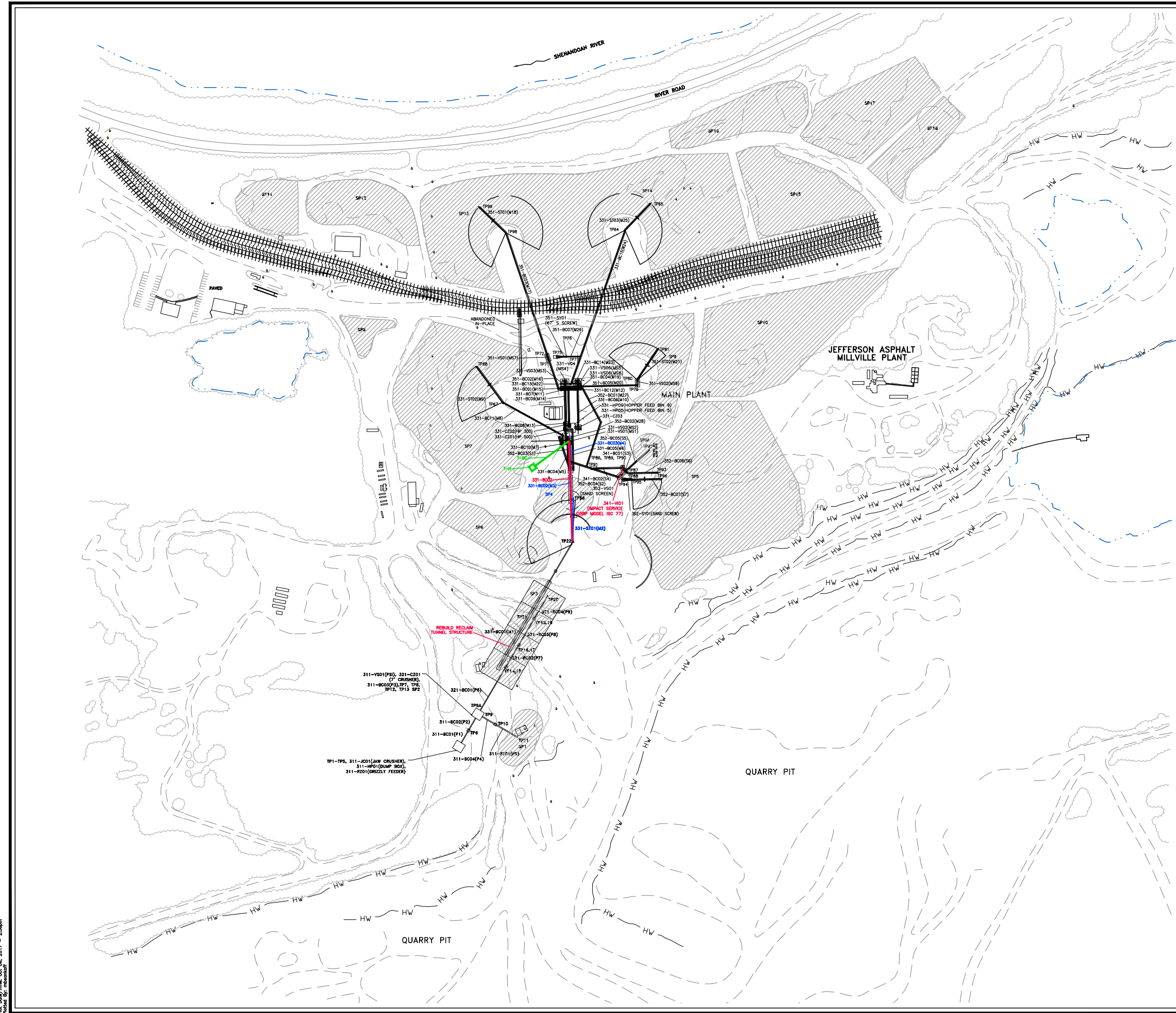
**POTESTA & ASSOCIATES, INC.**  
 ENGINEERS AND ENVIRONMENTAL CONSULTANTS  
 7012 MacCorkle Ave. SE, Charleston, WV 25304  
 TEL: (804) 342-1100 FAX: (804) 343-9031  
 E-Mail Address: potesta@potesta.com



Client  
**MILLVILLE QUARRY, INC.**  
 MILLVILLE, WEST VIRGINIA

Title  
**MILLVILLE QUARRY**

2  
 Drawing No.



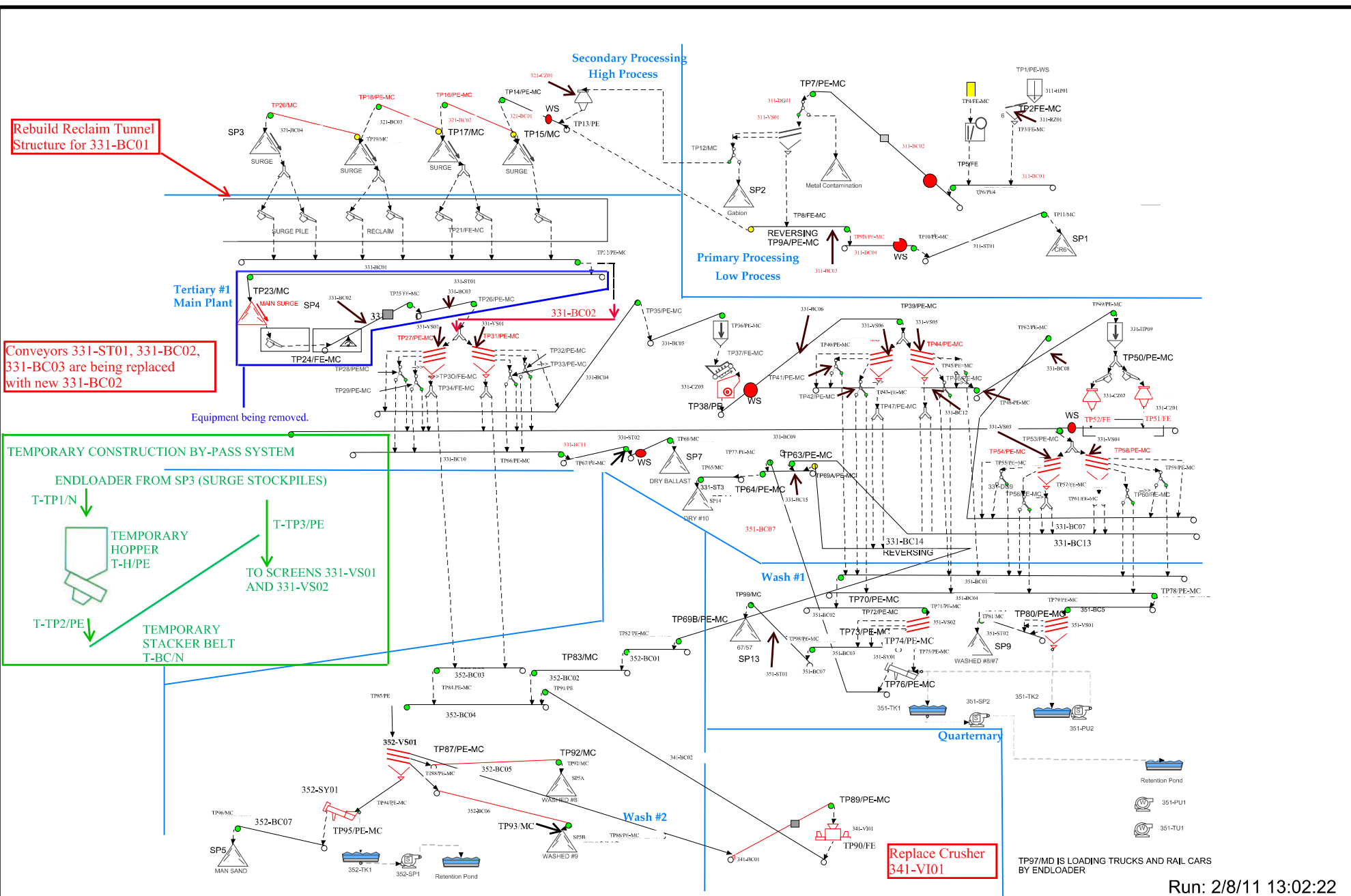
- NOTES:
1. THE I.D. NUMBERS OF THE EQUIPMENT BEGIN WITH THE PREFIX "3600".
  2. STOCKPILES NOT FED DIRECTLY BY CONVEYORS ARE FED BY EITHER LOADER OR TRUCKS. THESE INCLUDE SP8, SP10, SP12, SP15, SP16, SP17, AND SP18.
  3. HAULROADS AND WORK AREAS ARE WATERED BY WATERTRUCK AS NEEDED.

- TEMPORARY EQUIPMENT
- EXISTING EQUIPMENT
- REPLACEMENT EQUIPMENT
- EQUIPMENT BEING REMOVED/REPLACED

**PRELIMINARY**

XREF: Plan: 17-0157-010-02.dwg  
 NAME: 17-0157-010-02.dwg  
 FILE: 17-0157-010-02.dwg  
 DATE: 10/17/2017 11:25:00  
 USER: mbs  
 PLOT: 17-0157-010-02.dwg  
 PLOT DATE: 10/17/2017 11:25:00  
 PLOT USER: mbs

**ATTACHMENT F**  
**PROCESS FLOW DIAGRAM**

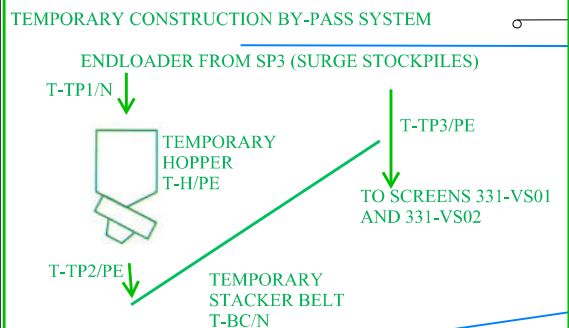


Rebuild Reclaim Tunnel Structure for 331-BC01

Conveyors 331-ST01, 331-BC02, 331-BC03 are being replaced with new 331-BC02

Tertiary #1 Main Plant

Equipment being removed.



Replace Crusher 341-V101

TP97/MD IS LOADING TRUCKS AND RAIL CARS BY ENDLADER

Run: 2/8/11 13:02:22

Calculation results may differ due to variations in operating conditions and application of crushing and screening equipment. This information does not constitute an express or implied warranty, but shows results of calculations based on information provided by customers or equipment manufacturers. Use this information for estimating purposes only.

**AGGREGATE INDUSTRIES, INC.**  
 Millville Quarry SAP  
 Chad Abramson  
 Page #1

All calculations performed by AggFlow. <http://www.AggFlow.com>

Date: June/19/2015

**ATTACHMENT G**  
**PROCESS DESCRIPTION**

## **ATTACHMENT G**

### **PROCESS DESCRIPTION**

Bardon, Inc. is submitting this application to obtain a temporary permit for a construction by-pass system. Millville Quarry is covered under general permit registration G40-C003F with the G version currently under review at the Division of Air Quality (DAQ). The G version of the general permit registration is for equipment replacement. One part of the project will replace part of the main plant feed system. With the main plant feed system being replaced, the facility cannot operate. The equipment proposed herein will be used to by-pass the equipment that is being replaced and allow continued operation of the quarry.

The proposed by-pass system will involve endloaders moving material from the existing main plant feed stockpile (SP3) and delivering it to hopper T-H/PE through T-TP1/N. From T-H/PE the material will pass through T-TP2/PE to conveyor T-BC/N. Conveyor T-BC/N will convey the material to existing screens 331-VS01 and 331-VS02 through T-TP3/PE.

It is anticipated that the construction of the new equipment will take from three (3) to six (6) months. Upon completion of the construction and start of operation of the permanent equipment, this temporary equipment will be removed from operation.

**ATTACHMENT I**  
**EMISSION UNITS TABLE**

## Attachment I

### Emission Units Table

(includes all emission units and air pollution control devices  
that will be part of this permit application review, regardless of permitting status)

| Emission Unit ID <sup>1</sup> | Emission Point ID <sup>2</sup> | Emission Unit Description | Year Installed/ Modified | Design Capacity | Type <sup>3</sup> and Date of Change | Control Device <sup>4</sup> |
|-------------------------------|--------------------------------|---------------------------|--------------------------|-----------------|--------------------------------------|-----------------------------|
| T-H                           | T-H                            | Temporary Hopper          | 2017                     | 50 tons         | New 2017                             | PE                          |
| T-BC                          | T-BC                           | Temporary Belt Conveyor   | 2017                     | 1,000 tph       | New 2017                             | N                           |
|                               |                                |                           |                          |                 |                                      |                             |
|                               |                                |                           |                          |                 |                                      |                             |
|                               |                                |                           |                          |                 |                                      |                             |
|                               |                                |                           |                          |                 |                                      |                             |
|                               |                                |                           |                          |                 |                                      |                             |
|                               |                                |                           |                          |                 |                                      |                             |
|                               |                                |                           |                          |                 |                                      |                             |
|                               |                                |                           |                          |                 |                                      |                             |
|                               |                                |                           |                          |                 |                                      |                             |
|                               |                                |                           |                          |                 |                                      |                             |
|                               |                                |                           |                          |                 |                                      |                             |
|                               |                                |                           |                          |                 |                                      |                             |
|                               |                                |                           |                          |                 |                                      |                             |
|                               |                                |                           |                          |                 |                                      |                             |
|                               |                                |                           |                          |                 |                                      |                             |
|                               |                                |                           |                          |                 |                                      |                             |
|                               |                                |                           |                          |                 |                                      |                             |
|                               |                                |                           |                          |                 |                                      |                             |

<sup>1</sup> For Emission Units (or Sources) use the following numbering system: 1S, 2S, 3S,... or other appropriate designation.  
<sup>2</sup> For Emission Points use the following numbering system: 1E, 2E, 3E, ... or other appropriate designation.  
<sup>3</sup> New, modification, removal  
<sup>4</sup> For Control Devices use the following numbering system: 1C, 2C, 3C,... or other appropriate designation.

**ATTACHMENT J**

**EMISSION POINTS DATA SUMMARY SHEETS**



## Attachment J Emission Points Data Summary Sheet

| Table 1: Emissions Data   |                                  |   |              |  |             |   |             |   |   |        |   |        |   |                               |   |
|---|----------------------------------|---|--------------|--|-------------|---|-------------|---|---|--------|---|--------|---|-------------------------------|---|
| Emission Point ID No.<br><i>(Must match Emission Units Table &amp; Plot Plan)</i> | Emission Point Type <sup>1</sup> | Emission Unit Vented Through This Point<br><i>(Must match Emission Units Table &amp; Plot Plan)</i> |              | Air Pollution Control Device<br><i>(Must match Emission Units Table &amp; Plot Plan)</i> |             | Vent Time for Emission Unit<br><i>(chemical processes only)</i> |             | All Regulated Pollutants<br>Chemical Name/CAS <sup>3</sup><br><br><i>(Speciate VOCs &amp; HAPS)</i> | Maximum Potential Uncontrolled Emissions <sup>4</sup> |        | Maximum Potential Controlled Emissions <sup>5</sup> |        | Emission Form or Phase<br><br><i>(At exit conditions, Solid, Liquid or Gas/Vapor)</i> | Est. Method Used <sup>6</sup> | Emission Concentration <sup>7</sup><br>(ppmv or mg/m <sup>4</sup> ) |
|   |                                  | ID No.  | Source       | ID No.   | Device Type | Short Term <sup>2</sup>   | Max (hr/yr) |   | lb/hr   | ton/yr | lb/hr   | ton/yr |   |                               |   |
| Transfer Points<br>T-TP1 through T-TP3<br>Created by T-H and T-BC                 | Transfer Points                  | T-H and T-BC  | T-H and T-BC | NA   | NA          | NA  | NA          | PM  | 16.50   | 8.25   | 11.00   | 5.51   | Solid<br>Solid<br>Solid   | AP-42                         | NA  |
|   |                                  |   |              |  |             |   |             | PM10  | 7.80  | 3.90   | 5.20  | 2.60   |   |                               |   |
|   |                                  |   |              |  |             |   |             | PM2.5   | 1.20  | 0.60   | 0.80  | 0.40   |   |                               |   |
|   |                                  |   |              |  |             |   |             |   |   |        |   |        |   |                               |   |
|   |                                  |   |              |  |             |   |             |   |   |        |   |        |   |                               |   |
|   |                                  |   |              |  |             |   |             |   |   |        |   |        |   |                               |   |
|   |                                  |   |              |  |             |   |             |   |   |        |   |        |   |                               |   |

The EMISSION POINTS DATA SUMMARY SHEET provides a summation of emissions by emission unit. Note that uncaptured process emission unit emissions are not typically considered to be fugitive and must be accounted for on the appropriate EMISSIONS UNIT DATA SHEET and on the EMISSION POINTS DATA SUMMARY SHEET. Please note that total emissions from the source are equal to all vented emissions, all fugitive emissions, plus all other emissions (e.g. uncaptured emissions). Please complete the FUGITIVE EMISSIONS DATA SUMMARY SHEET for fugitive emission activities.

<sup>1</sup> Please add descriptors such as upward vertical stack, downward vertical stack, horizontal stack, relief vent, rain cap, etc.

<sup>2</sup> Indicate by "C" if venting is continuous. Otherwise, specify the average short-term venting rate with units, for intermittent venting (i.e., 15 min/hr). Indicate as many rates as needed to clarify frequency of venting (e.g., 5 min/day, 2 days/wk).

<sup>3</sup> List all regulated air pollutants. Speciate VOCs, including all HAPs. Follow chemical name with Chemical Abstracts Service (CAS) number. LIST Acids, CO, CS<sub>2</sub>, VOCs, H<sub>2</sub>S, Inorganics, Lead, Organics, O<sub>3</sub>, NO, NO<sub>2</sub>, SO<sub>2</sub>, SO<sub>3</sub>, all applicable Greenhouse Gases (including CO<sub>2</sub> and methane), etc. DO NOT LIST H<sub>2</sub>, H<sub>2</sub>O, N<sub>2</sub>, O<sub>2</sub>, and Noble Gases.

<sup>4</sup> Give maximum potential emission rate with no control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).

<sup>5</sup> Give maximum potential emission rate with proposed control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).

<sup>6</sup> Indicate the method used to determine emission rate as follows: MB = material balance; ST = stack test (give date of test); EE = engineering estimate; O = other (specify).

<sup>7</sup> Provide for all pollutant emissions. Typically, the units of parts per million by volume (ppmv) are used. If the emission is a mineral acid (sulfuric, nitric, hydrochloric or phosphoric) use units of milligram per dry cubic meter (mg/m<sup>3</sup>) at standard conditions (68 °F and 29.92 inches Hg) (see 45CSR7). If the pollutant is SO<sub>2</sub>, use units of ppmv (See 45CSR10).

**Attachment J**  
**Emission Points Data Summary Sheet**

| Table 2: Release Parameter Data                                   |                      |            |   |                |  |  |                      |         |
|---|----------------------|------------|---|----------------|--|--|----------------------|---------|
| Emission Point ID No.<br><i>(Must match Emission Units Table)</i> | Inner Diameter (ft.) | Exit Gas   |   |                | Emission Point Elevation (ft)                        |  | UTM Coordinates (km) |         |
|   |                      | Temp. (°F) | Volumetric Flow <sup>1</sup> (acfm)<br><i>at operating conditions</i> | Velocity (fps) | Ground Level<br><i>(Height above mean sea level)</i> | Stack Height <sup>2</sup><br><i>(Release height of emissions above ground level)</i> | Northing             | Easting |
| NA  |                      |            |   |                |  |  |                      |         |
|   |                      |            |   |                |  |  |                      |         |
|   |                      |            |   |                |  |  |                      |         |
|   |                      |            |   |                |  |  |                      |         |
|   |                      |            |   |                |  |  |                      |         |
|   |                      |            |   |                |  |  |                      |         |
|   |                      |            |   |                |  |  |                      |         |
|   |                      |            |   |                |  |  |                      |         |
|   |                      |            |   |                |  |  |                      |         |
|   |                      |            |   |                |  |  |                      |         |
|   |                      |            |   |                |  |  |                      |         |
|   |                      |            |   |                |  |  |                      |         |
|   |                      |            |   |                |  |  |                      |         |
|   |                      |            |   |                |  |  |                      |         |
|   |                      |            |   |                |  |  |                      |         |
|   |                      |            |   |                |  |  |                      |         |
|   |                      |            |   |                |  |  |                      |         |
|   |                      |            |   |                |  |  |                      |         |
|   |                      |            |   |                |  |  |                      |         |
|   |                      |            |   |                |  |  |                      |         |
|   |                      |            |   |                |  |  |                      |         |

<sup>1</sup> Give at operating conditions. Include inerts.  
<sup>2</sup> Release height of emissions above ground level.

**ATTACHMENT K**

**FUGITIVE EMISSIONS DATA SUMMARY SHEETS**

## Attachment K

### FUGITIVE EMISSIONS DATA SUMMARY SHEET

The FUGITIVE EMISSIONS SUMMARY SHEET provides a summation of fugitive emissions. Fugitive emissions are those emissions which could not reasonably pass through a stack, chimney, vent or other functionally equivalent opening. Note that uncaptured process emissions are not typically considered to be fugitive, and must be accounted for on the appropriate EMISSIONS UNIT DATA SHEET and on the EMISSION POINTS DATA SUMMARY SHEET.

Please note that total emissions from the source are equal to all vented emissions, all fugitive emissions, plus all other emissions (e.g. uncaptured emissions).

| APPLICATION FORMS CHECKLIST - FUGITIVE EMISSIONS  |
|---|
| 1.) Will there be haul road activities?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> If YES, then complete the HAUL ROAD EMISSIONS UNIT DATA SHEET.   |
| 2.) Will there be Storage Piles?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><input type="checkbox"/> If YES, complete Table 1 of the NONMETALLIC MINERALS PROCESSING EMISSIONS UNIT DATA SHEET.  |
| 3.) Will there be Liquid Loading/Unloading Operations?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><input type="checkbox"/> If YES, complete the BULK LIQUID TRANSFER OPERATIONS EMISSIONS UNIT DATA SHEET.   |
| 4.) Will there be emissions of air pollutants from Wastewater Treatment Evaporation?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><input type="checkbox"/> If YES, complete the GENERAL EMISSIONS UNIT DATA SHEET.   |
| 5.) Will there be Equipment Leaks (e.g. leaks from pumps, compressors, in-line process valves, pressure relief devices, open-ended valves, sampling connections, flanges, agitators, cooling towers, etc.)?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><input type="checkbox"/> If YES, complete the LEAK SOURCE DATA SHEET section of the CHEMICAL PROCESSES EMISSIONS UNIT DATA SHEET. |
| 6.) Will there be General Clean-up VOC Operations?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><input type="checkbox"/> If YES, complete the GENERAL EMISSIONS UNIT DATA SHEET.   |
| 7.) Will there be any other activities that generate fugitive emissions?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><input type="checkbox"/> If YES, complete the GENERAL EMISSIONS UNIT DATA SHEET or the most appropriate form.  |
| If you answered "NO" to all of the items above, it is not necessary to complete the following table, "Fugitive Emissions Summary."  |

| FUGITIVE EMISSIONS SUMMARY                        | All Regulated Pollutants -<br>Chemical Name/CAS <sup>1</sup> | Maximum Potential<br>Uncontrolled Emissions <sup>2</sup> |                        | Maximum Potential<br>Controlled Emissions <sup>3</sup> |                       | Est.<br>Method<br>Used <sup>4</sup> |
|---|--|--|------------------------|--|-----------------------|-------------------------------------|
|   |  | lb/hr  | ton/yr                 | lb/hr  | ton/yr                |                                     |
| Haul Road/Road Dust Emissions<br>Paved Haul Roads |  |  |                        |  |                       |                                     |
| Unpaved Haul Roads                                | PM<br>PM10<br>PM2.5  | 140.45<br>41.46<br>4.15                                  | 70.23<br>20.73<br>2.07 | 42.14<br>12.44<br>1.25                                 | 21.07<br>6.22<br>0.62 | AP-42                               |
| Storage Pile Emissions                            |  |  |                        |  |                       |                                     |
| Loading/Unloading Operations                      |  |  |                        |  |                       |                                     |
| Wastewater Treatment Evaporation & Operations     |  |  |                        |  |                       |                                     |
| Equipment Leaks                                   |  |  |                        |  |                       |                                     |
| General Clean-up VOC Emissions                    |  |  |                        |  |                       |                                     |
| Other   |  |  |                        |  |                       |                                     |

<sup>1</sup> List all regulated air pollutants. Speciate VOCs, including all HAPs. Follow chemical name with Chemical Abstracts Service (CAS) number. LIST Acids, CO, CS<sub>2</sub>, VOCs, H<sub>2</sub>S, Inorganics, Lead, Organics, O<sub>3</sub>, NO, NO<sub>2</sub>, SO<sub>2</sub>, SO<sub>3</sub>, etc. DO NOT LIST CO<sub>2</sub>, H<sub>2</sub>, H<sub>2</sub>O, N<sub>2</sub>, O<sub>2</sub>, and Noble Gases.

<sup>2</sup> Give rate with no control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).

<sup>3</sup> Give rate with proposed control equipment operating. If emissions occur for less than 1 hr, then record emissions per batch in minutes (e.g. 5 lb VOC/20 minute batch).

<sup>4</sup> Indicate method used to determine emission rate as follows: MB = material balance; ST = stack test (give date of test); EE = engineering estimate; O = other (specify).

**ATTACHMENT L**

**EMISSIONS UNIT DATA SHEETS**

**Affected Source Sheet**  
**Source Specific Emissions Data: Solid Materials Sizing,**  
**Handling and Storage Facilities**

Required Information Regarding  
Dust Control Equipment Measures

1. If water or chemical sprays are to be used on conveyors, transfer points, stockpiles, etc... for dust control, the location of all spray bars or spray systems should be shown on the plot plans and/or line drawings. The following information should be provided for each spray system:
  - a. Design water flow through spray bar
  - b. Type and amount of chemicals used and the mix ratio of chemical to water used at the sprays.
  - c. Methods employed to winterize sprays (e.g. keep sprays from freezing and becoming inoperable during cold weather)

**Not Applicable**

2. A detailed written description should be submitted of dust control measures/programs that will be employed on haul roads and in areas of vehicle activity around material stockpiled. The haulways and areas to be treated should be shown by shading or similar description on the plant plan. The following points should be specifically addressed:
  - a. Equipment (e.g. water trucks, fixed spray bars, wheel and truck underbody washers, etc...) that will be used in this dust control program.
  - b. Frequency of application of water and chemical to roads and stockpile areas during dry periods.
  - c. Amount of chemical suppressants to be used, if applicable, in pounds or gallons per square yard of surface to be treated.
  - d. Type of haulroad or haulway surface(s) that will be maintained (e.g. coarse gravel, reddog, etc...)
  - e. Approximate maximum length of haulroads (miles or feet).
  - f. Maximum daily truck traffic on haulroads (number of trucks).

**Not Applicable**

3. If full or partial enclosures are to be used to minimize dust entrainment, a drawing of each such enclosure should be submitted (for example at truck dump bins, breakers, conveyor transfer points).
4. If particulate control devices such as baghouses or scrubbers are to be used, complete an appropriate Air Pollution Control Device Sheet and furnish a drawing showing details of enclosures and ductwork associated with these control systems.

## AFFECTED SOURCE SHEET

### Source Specific Emissions Data: Solid Materials Sizing, Handling, and Storage Facilities

#### Plot Plan(s) and Line Drawing(s)

- a. Finish the plot plan(s) of the plant area which contains sufficient detail to show the scaled layout of the equipment involved in each materials handling system (e.g. conveyors, transfer points, crushers, screens, bins, stockpiles, truck dump bins, etc...). Show equipment or buildings described in other sections of this application on the plot plan as appropriate. The guidelines for Plot Plans should be followed to the extent possible.
- b. Furnish the line drawing(s) or schematic(s) showing each component or facet of each materials handling system (e.g. conveyors, transfer points, stockpiles, crushers, screens, bins etc...). Show process equipment described in other sections of this application as needed for clarity.
- c. On the line drawing(s) or schematic(s) furnished in accordance with item (b) assign an ID number to each conveyor, transfer point (including truck, barge and rail car loading/unloading etc...), storage structure, stockpile, crusher, and screening unit. If any equipment is shown on the line drawing(s) which was described in other sections of this application, use the ID numbers assigned to the equipment in those other sections and indicate equipment name or type (e.g. rotary dryer, vertical kiln etc...)
- d. To the extent possible, note the numbers assigned for equipment and storage facilities as per item (c) on the Plot Plans(s).
- e. The assigned ID numbers for equipment and transfer points must be used to complete Tables 1, 2, and 3 following.



**Table 1: Affected Storage Activity**

|  |           |  |  |  |  |
|--|-----------|--|--|--|--|
| ID Number  | T-H       |  |  |  |  |
| Affected Source Name   | T-H       |  |  |  |  |
| Type Storage <sup>1</sup>                                    | B         |  |  |  |  |
| Material Stored  | Limestone |  |  |  |  |
| Typical Moisture Content (%)                                 | 1.5       |  |  |  |  |
| Avg % of material passing 200 mesh sieve                     | 1         |  |  |  |  |
| Maximum Total Yearly Throughput in storage (tons)            | 1,000,000 |  |  |  |  |
| Maximum Quantity of Material in Storage <sup>2</sup> (tons)  | 50        |  |  |  |  |
| Maximum Stockpile Base Area (sq. ft.)                        | NA        |  |  |  |  |
| Maximum Stockpile height (ft)                                | NA        |  |  |  |  |
| Type dust controls during storage <sup>3</sup>               | PE        |  |  |  |  |
| Method of material load-in to bin or stockpile <sup>4</sup>  | FE        |  |  |  |  |
| Type dust controls during load-in <sup>5</sup>               | MD        |  |  |  |  |
| Method of material load-out to bin or stockpile <sup>4</sup> | UC        |  |  |  |  |
| Type dust controls during load-out <sup>5</sup>              | PE        |  |  |  |  |

**Table 2: Conveying and Transfer**

| ID Number                        | Type Conveyor or Transfer Point <sup>6</sup> | Material Handled [(Note nominal size of material transferred)] <sup>7</sup> | Material Conveying or Transfer Rate   |                | Type Dust Control Measures <sup>5</sup> | Approximate Material Moisture Content (%) |
|----------------------------------|--|---|---------------------------------------|----------------|---|---|
|                                  |  |   | Maximum TPH                           | Maximum MM TPY |   |   |
| <b>Conveyors</b>                 |  |   |                                       |                |   |   |
| T-BC                             | BC   | 0" – 8"   | 1,000                                 | 1,000,000      | N                                       | 1.5                                       |
|                                  |  |   |                                       |                |   |   |
|                                  |  |   |                                       |                |   |   |
|                                  |  |   |                                       |                |   |   |
|                                  |  |   |                                       |                |   |   |
|                                  |  |   |                                       |                |   |   |
| <b>Transfer Points</b>           |  |   |                                       |                |   |   |
| T-TP1                            | OTH10  | 0" – 8"   | 1,000                                 | 1,000,000      | N                                       | 1.5                                       |
| T-TP2                            | OTH6   | 0" – 8"   | 1,000                                 | 1,000,000      | PE                                      | 1.5                                       |
| T-TP3                            | OTH5   | 0" – 8"   | 1,000                                 | 1,000,000      | PE                                      | 1.5                                       |
|                                  |  |   |                                       |                |   |   |
|                                  |  |   |                                       |                |   |   |
|                                  |  |   |                                       |                |   |   |
|                                  |  |   |                                       |                |   |   |
|                                  |  |   |                                       |                |   |   |
|                                  |  |   |                                       |                |   |   |
|                                  |  |   |                                       |                |   |   |
|                                  |  |   |                                       |                |   |   |
|                                  |  |   |                                       |                |   |   |
|                                  |  |   |                                       |                |   |   |
|                                  |  |   |                                       |                |   |   |
| OTH1: Bin to Grate               |  |   | OTH6: Bin to Conveyor                 |                |   |   |
| OTH2: Grate to Conveyor          |  |   | OTH7: Conveyor to Stockpile/Truck     |                |   |   |
| OTH3: Grate to Crusher           |  |   | OTH8: Screen to Truck/Stockpile       |                |   |   |
| OTH4: Screen/Crusher to Conveyor |  |   | OTH9: Conveyor to Screen Transfer Box |                |   |   |
| OTH5: Conveyor to Screen/Crusher |  |   | OTH10: Endloader to Bin or Hopper     |                |   |   |

**Table 3: Crushing and Screening** None

|   |               |  |  |  |  |
|---|---------------|--|--|--|--|
| ID Number   |               |  |  |  |  |
| Type Crusher or Screen <sup>8</sup>                 |               |  |  |  |  |
| Material Sized                                      |               |  |  |  |  |
| Maximum Material Throughput                         | Tons/hour     |  |  |  |  |
|   | Tons/year     |  |  |  |  |
| Material sized from/to: <sup>9</sup>                |               |  |  |  |  |
| Typical moisture content as crushed or screened (%) |               |  |  |  |  |
| Type dust control                                   |               |  |  |  |  |
| Stack Parameters                                    | height (ft)   |  |  |  |  |
|   | diameter (ft) |  |  |  |  |
|   | Volume (ACFM) |  |  |  |  |
|   | Temp (°F)     |  |  |  |  |
| Maximum Operating Schedule                          | hour/day      |  |  |  |  |
|   | day/year      |  |  |  |  |
|   | hour/year     |  |  |  |  |
| Approximate Percentage of Operation from:           | Jan-Mar       |  |  |  |  |
|   | April-June    |  |  |  |  |
|   | July-Sept     |  |  |  |  |
|   | Oct-Dec       |  |  |  |  |
| Maximum Particulate Emissions                       | lb/hour       |  |  |  |  |
|   | Ton/year      |  |  |  |  |

Describe method of determining emissions and dust control efficiencies (if by test on a similar unit provide report, if by emission factor reference emission factors):

1. Type Storage - Code as follows: (Capacity of each bin, building or enclosure)
  - OS - Open Stockpile
  - B - Bin or Storage Silo (full enclosure)
  - SB - Storage Building (full enclosure)
  - E- Enclosure (walls but no top)
  - SWF- Stockpiles with wind fences
  - OTH- Other - Specify in footnote or attachment
  
2. Give maximum and average quantity of material in storage at any given time (e.g. silo capacity, stockpile size, etc...)
  
3. TYPE DUST CONTROLS DURING STORAGE  
 If storage is by other than by bin or full enclosure Code as follows:
  - N - None
  - WS- Water Sprays
  - C- Spraying with chemical surfactant
  - OTH- Other - Specify in footnote or attachment
  
4. METHOD OF PLACING MATERIAL ONTO STOCKPILE OR INTO BINS OR LOADING OUT FROM STOCKPILES OR BINS - Code as follows:
  - C- Clamshell
  - TD- Truck Dumping
  - FE- Front Endloader
  - ST- Stacking Tubes
  - MS- Mobile Conveyor - Stacker
  - SS- Stationary Conveyor - Stacker
  - P- Pneumatic Conveyor - Stacker
  - FC- Fixed Height Chute from bins
  - TC- Telescoping Chute from bins
  - UC- Under-pole or under-bin reclaim conveyor
  - RC- Reclaim Conveyor (rake or bucket reclaim conveyor reclaiming from surface of stockpile)
  - OTH- Other - Describe in a footnote or attachment
  
5. TYPE DUST CONTROLS - Code as follows:
  - N- None
  - WS- Water Sprays
  - WSA- Water Sprays with Wetting Agents
  - CS- Chemical Dust Suppressant (sprays, etc...)
  - FE- Full Enclosures
  - PE- Partial Enclosures
  - MD- Minimization of material drop height
  - EM- Enclosure and evacuation to mechanical collector
  - EB- Enclosure and evacuation to baghouse
  - ES- Enclosure and evacuation to scrubber
  - OTH- Other - describe in footnote or attachment

6. TYPE CONVEYOR OR TRANSFER POINT - Code as follows:

Conveyors

- BC- Belt Conveyor
- VC- Vibrating Conveyor
- SC- Screw Conveyor
- DL- Drag-link conveyor
- BE- Bucket Elevator
- PS- Pneumatic System
- OTH- Other describe in footnote or attachment

Transfer Points

- 01- Conveyor to Conveyor
- 02- Conveyor to Bucket Elevator
- 03- Conveyor to Hopper or Bin
- 04- Bucket Elevator to Hopper or Bin
- 05- Pneumatic conveyor to bin
- 06- Truck Dumping onto ground
- 07- Truck Dumping into hopper
- 08- Loading trucks through stationary chute
- 09- Loading trucks through telescoping chute
- 10- Loading Trucks by endloader
- 11- Railcar unloading-side or bottom dumping
- 12- Railcar unloading-rotary unloader
- 13- Railcar loading /unloading by pneumatic system
- 14- Railcar loading through stationary source
- 15- Railcar loading through telescopic chute
- 16- Railcar loading by front end-loader
- 17- Railcar loading by railcar
- 18- Barge loading/unloading by clamshell
- 19- Barge unloading - bucket ladder unloader
- 20- Barge unloading - from a fixed-height conveyor or stationary chute
- 21- Barge loading - variable height conveyor or telescoping chute
- 22- Other - describe in footnote or attachment

- 7. If more than one material is handled by the listed conveyor or transfer point list each material and furnish the requested data in the table for each material.
- 8. Describe type of unit such as hammermill, ball mill, double-deck (DD) screen, double roll (DR) crusher, etc....
- 9. Describe nominal size reduction, example +2" / -3/8

**Attachment L  
FUGITIVE EMISSIONS FROM UNPAVED HAULROADS**

*UNPAVED HAULROADS (including all equipment traffic involved in process, haul trucks, endloaders, etc.)*

|     |  | PM  | PM-10 |
|-----|--|-----|-------|
| k = | Particle size multiplier                             | 4.9 | 1.5   |
| s = | Silt content of road surface material (%)            | 10  | 10    |
| p = | Number of days per year with precipitation >0.01 in. | 148 | 148   |

| Item Number | Description | Number of Wheels | Mean Vehicle Weight (tons) | Mean Vehicle Speed (mph) | Miles per Trip | Maximum Trips per Hour | Maximum Trips per Year | Control Device ID Number | Control Efficiency (%) |
|-------------|-------------|------------------|----------------------------|--------------------------|----------------|------------------------|------------------------|--------------------------|------------------------|
| 1           | Endloader   | 4                | 80                         | NA                       | 0.25           | 50                     | 50,000                 | WS                       | 70                     |
| 2           |             |                  |                            |                          |                |                        |                        |                          |                        |
| 3           |             |                  |                            |                          |                |                        |                        |                          |                        |
| 4           |             |                  |                            |                          |                |                        |                        |                          |                        |
| 5           |             |                  |                            |                          |                |                        |                        |                          |                        |
| 6           |             |                  |                            |                          |                |                        |                        |                          |                        |

**Source:** AP-42 Fifth Edition – 13.2.2 Unpaved Roads

$$E = k \times 5.9 \times (s \div 12) \times (S \div 30) \times (W \div 3)^{0.7} \times (w \div 4)^{0.5} \times ((365 - p) \div 365) = \text{lb/Vehicle Mile Traveled (VMT)}$$

Where:

|     |  | PM  | PM-10 |
|-----|--|-----|-------|
| k = | Particle size multiplier                             | 4.9 | 1.5   |
| s = | Silt content of road surface material (%)            | 10  | 10    |
| S = | Mean vehicle speed (mph)                             | NA  | NA    |
| W = | Mean vehicle weight (tons)                           | 80  | 80    |
| w = | Mean number of wheels per vehicle                    | 4   | 4     |
| p = | Number of days per year with precipitation >0.01 in. | 148 | 148   |

For lb/hr:  $[\text{lb} \div \text{VMT}] \times [\text{VMT} \div \text{trip}] \times [\text{Trips} \div \text{Hour}] = \text{lb/hr}$

For TPY:  $[\text{lb} \div \text{VMT}] \times [\text{VMT} \div \text{trip}] \times [\text{Trips} \div \text{Hour}] \times [\text{Ton} \div 2000 \text{ lb}] = \text{Tons/year}$

**SUMMARY OF UNPAVED HAULROAD EMISSIONS**

| Item No.      | PM                 |                |                    |                | PM-10              |                |                    |                |
|---------------|--------------------|----------------|--------------------|----------------|--------------------|----------------|--------------------|----------------|
|               | Uncontrolled lb/hr | Controlled TPY | Uncontrolled lb/hr | Controlled TPY | Uncontrolled lb/hr | Controlled TPY | Uncontrolled lb/hr | Controlled TPY |
| 1             | 140.45             | 70.23          | 42.14              | 21.07          | 41.46              | 20.73          | 12.44              | 6.22           |
| 2             |                    |                |                    |                |                    |                |                    |                |
| 3             |                    |                |                    |                |                    |                |                    |                |
| 4             |                    |                |                    |                |                    |                |                    |                |
| 5             |                    |                |                    |                |                    |                |                    |                |
| 6             |                    |                |                    |                |                    |                |                    |                |
| <b>TOTALS</b> | 140.45             | 70.23          | 42.14              | 21.07          | 41.46              | 20.73          | 12.44              | 6.22           |

### FUGITIVE EMISSIONS FROM PAVED HAULROADS

*INDUSTRIAL PAVED HAULROADS (including all equipment traffic involved in process, haul trucks, endloaders, etc.)*

|     |  |  |
|-----|--|--|
| I = | Industrial augmentation factor (dimensionless) |  |
| n = | Number of traffic lanes                        |  |
| s = | Surface material silt content (%)              |  |
| L = | Surface dust loading (lb/mile)                 |  |

| Item Number | Description | Mean Vehicle Weight (tons) | Miles per Trip | Maximum Trips per Hour | Maximum Trips per Year | Control Device ID Number | Control Efficiency (%) |
|-------------|-------------|----------------------------|----------------|------------------------|------------------------|--------------------------|------------------------|
| 1           | NA          |                            |                |                        |                        |                          |                        |
| 2           |             |                            |                |                        |                        |                          |                        |
| 3           |             |                            |                |                        |                        |                          |                        |
| 4           |             |                            |                |                        |                        |                          |                        |
| 5           |             |                            |                |                        |                        |                          |                        |
| 6           |             |                            |                |                        |                        |                          |                        |

**Source:** AP-42 Fifth Edition – 11.2.6 Industrial Paved Roads

$$E = 0.077 \times I \times (4 \div n) \times (s \div 10) \times (L \div 1000) \times (W \div 3)^{0.7} = \text{lb/Vehicle Mile Traveled (VMT)}$$

Where:

|     |  |  |
|-----|--|--|
| I = | Industrial augmentation factor (dimensionless) |  |
| n = | Number of traffic lanes                        |  |
| s = | Surface material silt content (%)              |  |
| L = | Surface dust loading (lb/mile)                 |  |
| W = | Average vehicle weight (tons)                  |  |

For lb/hr:  $[\text{lb} \div \text{VMT}] \times [\text{VMT} \div \text{trip}] \times [\text{Trips} \div \text{Hour}] = \text{lb/hr}$

For TPY:  $[\text{lb} \div \text{VMT}] \times [\text{VMT} \div \text{trip}] \times [\text{Trips} \div \text{Hour}] \times [\text{Ton} \div 2000 \text{ lb}] = \text{Tons/year}$

#### SUMMARY OF PAVED HAULROAD EMISSIONS

| Item No.      | Uncontrolled |     | Controlled |     |
|---------------|--------------|-----|------------|-----|
|               | lb/hr        | TPY | lb/hr      | TPY |
| 1             |              |     |            |     |
| 2             |              |     |            |     |
| 3             |              |     |            |     |
| 4             |              |     |            |     |
| 5             |              |     |            |     |
| 6             |              |     |            |     |
| <b>TOTALS</b> |              |     |            |     |

**ATTACHMENT N**

**SUPPORTING EMISSION CALCULATIONS**



By: PEW  
 Date: 10/4/2017

Checked By: LKB  
 Date: 10/06/2017

**Proposed Temporary Equipment Operations**

Expected Operational Timeframe (months)= 6  
 Hourly Throughput (tph) = 1,000  
 Total Throughput (tons) = 1,000,000

**Proposed PTE**

**Point Sources**

| Source Description | Regulated Air Pollutant | Uncontrolled |        | Controlled |        |
|--------------------|-------------------------|--------------|--------|------------|--------|
|                    |                         | (lb/hr)      | (tpy)* | (lb/hr)    | (tpy)* |
| Transfer Points    | PM                      | 16.50        | 8.25   | 11.00      | 5.51   |
|                    | PM10                    | 7.80         | 3.90   | 5.20       | 2.60   |
|                    | PM2.5                   | 1.20         | 0.60   | 0.80       | 0.40   |
|                    | PM Subtotal:            | 16.50        | 8.25   | 11.00      | 5.51   |
|                    | PM10 Subtotal:          | 7.80         | 3.90   | 5.20       | 2.60   |
|                    | PM2.5 Subtotal:         | 1.20         | 0.60   | 0.80       | 0.40   |

**Fugitive Sources**

| Source Description | Regulated Air Pollutant | Uncontrolled |        | Controlled |        |
|--------------------|-------------------------|--------------|--------|------------|--------|
|                    |                         | (lb/hr)      | (tpy)* | (lb/hr)    | (tpy)* |
| Vehicular Traffic  | PM                      | 140.45       | 70.23  | 42.14      | 21.07  |
|                    | PM10                    | 41.46        | 20.73  | 12.44      | 6.22   |
|                    | PM2.5                   | 4.15         | 2.07   | 1.25       | 0.62   |
|                    | PM Subtotal:            | 140.45       | 70.23  | 42.14      | 21.07  |
|                    | PM10 Subtotal:          | 41.46        | 20.73  | 12.44      | 6.22   |
|                    | PM2.5 Subtotal:         | 4.15         | 2.07   | 1.25       | 0.62   |

**Total Emissions (Point + Fugitive)**

| Regulated Air Pollutant | Uncontrolled |        | Controlled |        |
|-------------------------|--------------|--------|------------|--------|
|                         | (lb/hr)      | (tpy)* | (lb/hr)    | (tpy)* |
| PM                      | 156.95       | 78.48  | 53.14      | 26.58  |
| PM10                    | 49.26        | 24.63  | 17.64      | 8.82   |
| PM2.5                   | 5.35         | 2.67   | 2.05       | 1.02   |

\* total emissions anticipated to occur in a six (6) month period.

By: PEW  
Date: 10/4/2017

Checked By: LKB  
Date: 10/06/2017

**Transfer Points**

**Emission factor equation:**

$$E = k (0.0032) (U/5)^{1.3} / (M/2)^{1.4}$$

From AP-42 Fifth Edition, Section 13.2.4, Aggregate Handling and Storage Piles

|     |      |      |       |   |
|-----|------|------|-------|---|
|     | PM   | PM10 | PM2.5 |   |
| E = | ?    | ?    | ?     | lb/ton                                  |
| k = | 0.74 | 0.35 | 0.053 | dimensionless, particle size multiplier |
| U = | 7    | 7    | 7     | mph, mean wind speed                    |
| M = | ?    | ?    | ?     | %, moisture content                     |

**Particulate Matter (PM)**

Rounding to = 2

| ID              | Transfer Capacity |           | Moisture Content (M) (%) | Emission Factor (lb/ton) | Control Device |          | PM           |             |              |             |
|-----------------|-------------------|-----------|--------------------------|--------------------------|----------------|----------|--------------|-------------|--------------|-------------|
|                 | (tph)             | (tpy)     |                          |                          | Type           | Effic(%) | Uncontrolled |             | Controlled   |             |
|                 |                   |           |                          |                          |                |          | (lb/hr)      | (tpy)       | (lb/hr)      | (tpy)       |
| T-TP1           | 1,000             | 1,000,000 | 1.5                      | 0.0055                   | N              | 0        | 5.50         | 2.75        | 5.50         | 2.75        |
| T-TP2           | 1,000             | 1,000,000 | 1.5                      | 0.0055                   | PE             | 50       | 5.50         | 2.75        | 2.75         | 1.38        |
| T-TP3           | 1,000             | 1,000,000 | 1.5                      | 0.0055                   | PE             | 50       | 5.50         | 2.75        | 2.75         | 1.38        |
| <b>Total PM</b> |                   |           |                          |                          |                |          | <b>16.50</b> | <b>8.25</b> | <b>11.00</b> | <b>5.51</b> |

**Particulate Matter less than 10 Microns (PM10)**

| ID                | Transfer Capacity |           | Moisture Content (M) (%) | Emission Factor (lb/ton) | Control Device |          | PM10         |             |             |             |
|-------------------|-------------------|-----------|--------------------------|--------------------------|----------------|----------|--------------|-------------|-------------|-------------|
|                   | (tph)             | (tpy)     |                          |                          | Type           | Effic(%) | Uncontrolled |             | Controlled  |             |
|                   |                   |           |                          |                          |                |          | (lb/hr)      | (tpy)       | (lb/hr)     | (tpy)       |
| T-TP1             | 1,000             | 1,000,000 | 1.5                      | 0.0026                   | N              | 0        | 2.60         | 1.30        | 2.60        | 1.30        |
| T-TP2             | 1,000             | 1,000,000 | 1.5                      | 0.0026                   | PE             | 50       | 2.60         | 1.30        | 1.30        | 0.65        |
| T-TP3             | 1,000             | 1,000,000 | 1.5                      | 0.0026                   | PE             | 50       | 2.60         | 1.30        | 1.30        | 0.65        |
| <b>Total PM10</b> |                   |           |                          |                          |                |          | <b>7.80</b>  | <b>3.90</b> | <b>5.20</b> | <b>2.60</b> |

**Particulate Matter less than 2.5 Microns (PM2.5)**

| ID                 | Transfer Capacity |           | Moisture Content (M) (%) | Emission Factor (lb/ton) | Control Device |          | PM2.5        |             |             |             |
|--------------------|-------------------|-----------|--------------------------|--------------------------|----------------|----------|--------------|-------------|-------------|-------------|
|                    | (tph)             | (tpy)     |                          |                          | Type           | Effic(%) | Uncontrolled |             | Controlled  |             |
|                    |                   |           |                          |                          |                |          | (lb/hr)      | (tpy)       | (lb/hr)     | (tpy)       |
| T-TP1              | 1,000             | 1,000,000 | 1.5                      | 0.0004                   | N              | 0        | 0.40         | 0.20        | 0.40        | 0.20        |
| T-TP2              | 1,000             | 1,000,000 | 1.5                      | 0.0004                   | PE             | 50       | 0.40         | 0.20        | 0.20        | 0.10        |
| T-TP3              | 1,000             | 1,000,000 | 1.5                      | 0.0004                   | PE             | 50       | 0.40         | 0.20        | 0.20        | 0.10        |
| <b>Total PM2.5</b> |                   |           |                          |                          |                |          | <b>1.20</b>  | <b>0.60</b> | <b>0.80</b> | <b>0.40</b> |

By: PEW  
Date: 10/4/2017

Checked By: LKB  
Date: 10/06/2017

**Vehicle Traffic - Endloader**

**Unpaved haulroad emission factor equation:**

$$E = k(s/12)^a (W/3)^b ((365-p)/365)$$

From AP-42 Sixth Edition, Section 13.2.2, Fugitive Dust Sources

|                          | PM           | PM10        | PM2.5       |                          |
|--------------------------|--------------|-------------|-------------|--------------------------|
| E =                      | ?            | ?           | ?           | lb/VMT                   |
| k =                      | 4.9          | 1.5         | 0.15        | particle size multiplier |
| a =                      | 0.7          | 0.9         | 0.9         | constant                 |
| b =                      | 0.45         | 0.45        | 0.45        | constant                 |
| s =                      | 10           | 10          | 10          | % silt in road surface   |
| W <sub>endloader</sub> = | 80           | 80          | 80          | mean vehicle weight      |
| p =                      | 148          | 148         | 148         | # days with 0.01" rain   |
| E <sub>endloader</sub> = | <b>11.24</b> | <b>3.32</b> | <b>0.33</b> | lb/VMT                   |

| Vehicle    | Tons/Hr | Tons/Yr   |
|------------|---------|-----------|
| Endloaders | 1,000   | 1,000,000 |

| Vehicle    | Vehicle Wt | Load Wt |
|------------|------------|---------|
| Endloaders | 70         | 20      |

Rounding to = 2

| Vehicular Traffic |                    | Number of Trips/Hour (trips/hour) | Number of Trips/Year (trips/year) | Control Device |          | TSP Emissions |              |              |              |
|-------------------|--------------------|-----------------------------------|-----------------------------------|----------------|----------|---------------|--------------|--------------|--------------|
| ID                | Miles/Trip (miles) |                                   |                                   | Type           | Effic(%) | Uncontrolled  |              | Controlled   |              |
|                   |                    |                                   |                                   |                |          | (lb/hr)       | (tpy)        | (lb/hr)      | (tpy)        |
| Endloaders        | 0.25               | 50                                | 50,000                            | WS             | 70       | 140.45        | 70.23        | 42.14        | 21.07        |
|                   |                    |                                   |                                   |                |          | <b>140.45</b> | <b>70.23</b> | <b>42.14</b> | <b>21.07</b> |

| Vehicular Traffic |                    | Number of Trips/Hour (trips/hour) | Number of Trips/Year (trips/year) | Control Device |          | PM10 Emissions |              |              |             |
|-------------------|--------------------|-----------------------------------|-----------------------------------|----------------|----------|----------------|--------------|--------------|-------------|
| ID                | Miles/Trip (miles) |                                   |                                   | Type           | Effic(%) | Uncontrolled   |              | Controlled   |             |
|                   |                    |                                   |                                   |                |          | (lb/hr)        | (tpy)        | (lb/hr)      | (tpy)       |
| Endloaders        | 0.25               | 50                                | 50,000                            | WS             | 70       | 41.46          | 20.73        | 12.44        | 6.22        |
|                   |                    |                                   |                                   |                |          | <b>41.46</b>   | <b>20.73</b> | <b>12.44</b> | <b>6.22</b> |

| Vehicular Traffic |                    | Number of Trips/Hour (trips/hour) | Number of Trips/Year (trips/year) | Control Device |          | PM2.5 Emissions |             |             |             |
|-------------------|--------------------|-----------------------------------|-----------------------------------|----------------|----------|-----------------|-------------|-------------|-------------|
| ID                | Miles/Trip (miles) |                                   |                                   | Type           | Effic(%) | Uncontrolled    |             | Controlled  |             |
|                   |                    |                                   |                                   |                |          | (lb/hr)         | (tpy)       | (lb/hr)     | (tpy)       |
| Endloaders        | 0.25               | 50                                | 50,000                            | WS             | 70       | 4.15            | 2.07        | 1.25        | 0.62        |
|                   |                    |                                   |                                   |                |          | <b>4.15</b>     | <b>2.07</b> | <b>1.25</b> | <b>0.62</b> |

**ATTACHMENT O**

**MONITORING/RECORDKEEPING/REPORTING/  
TESTING PLANS**

**ATTACHMENT O**  
**MONITORING/RECORDKEEPING/REPORTING/TESTING PLANS**

Bardon Inc. proposes to monitor, maintain records, and report as required by the issued permit.

**ATTACHMENT P**  
**PUBLIC NOTICE**

# AIR QUALITY PERMIT NOTICE

## Notice of Application

Notice is given that Bardon, Inc. has applied to the West Virginia Department of Environmental Protection, Division of Air Quality for a Regulation 13 Temporary Permit for Millville Quarry for a construction by-pass system. The facility is located off of County Route 23 (Blair Road) near Millville in Jefferson County, West Virginia. The latitude and longitude coordinates are: 39.287, -77.794.

The applicant estimates the potential to discharge the following Regulated Air Pollutants will be: PM of 26.58 tons per year (tpy) of which 21.07 tpy are fugitive, PM<sub>10</sub> of 8.82 tpy of which 6.22 tpy are fugitive, and PM<sub>2.5</sub> of 1.02 tpy of which 0.62 tpy are fugitive.

The facility is operational. The temporary equipment will be installed and operated while construction of permanent equipment occurs and should be installed November 15, 2017. Written comments will be received by the West Virginia Department of Environmental Protection, Division of Air Quality, 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 for at least 30 calendar days from the date of publication of this notice.

Any questions regarding this permit application should be directed to the DAQ at (304) 926-0499, extension 1250, during normal business hours.

Dated this the **(Insert Date)** day of October, 2017.

By: Bardon, Inc.  
Stephen Ward  
Vice President  
6401 Golden Triangle Drive, Suite 400  
Greenbelt, Maryland 20770