

### WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF AIR QUALITY 601 57<sup>th</sup> Street, SE

601 57<sup>th</sup> Street, SE Charleston, WV 25304

Phone: (304) 926-0475 \* www.dep.wv.gov/daq

#### APPLICATION FOR GENERAL PERMIT REGISTRATION

CONSTRUCT, MODIFY, RELOCATE OR ADMINISTRATIVELY UPDATE A STATIONARY SOURCE OF AIR POLLUTANTS

□ CONSTRUCTION □ MODIFICATION □	RELOCATION			MINISTRATIVE UPDATE	
		[	CLASS II AD	MINISTRATIVE UPDATE	
CHECK WHICH TYPE OF GENERAL PE	RMIT REGIST	RATION	YOU ARE AF	PLYING FOR:	
☐ G10-D – Coal Preparation and Handling		⊠ G40	-C – Nonmetallio	Minerals Processing	
☐ G20-B – Hot Mix Asphalt		□ G50	-B - Concrete B	atch	
☐ G30-D – Natural Gas Compressor Stations		□ G60	-C - Class II Em	ergency Generator	
☐ G33-A – Spark Ignition Internal Combustion Engines		☐ G65	-C – Class I Eme	ergency Generator	
☐ G35-A – Natural Gas Compressor Stations (Flare/Glycol Dehydr	ration Unit)	□ G70	-A - Class II Oil	and Natural Gas Production Facility	,
SECTION I. G	ENERAL INFO	RMATIO	ON		
1. Name of applicant (as registered with the WV Secretary of State's	office):		2. Federal Emp	oloyer ID No. (FEIN):	
Kanawha Stone Company			55-0535003		
Tana na stone company					
Applicant's mailing address:	4. Applic	ant's phy	sical address:		
409 Jacobson Drive	409 J	acobson	Drive		
	Poca	WV 25	150		
Poca, WV 25159	1000	, W V 25	137		
5. If applicant is a subsidiary corporation, please provide the name of	f parent corporat	ion: N/	A		
6. WV BUSINESS REGISTRATION. Is the applicant a resident of the	e State of West \	/irginia?	Ď YI	S □ NO	
IF YES, provide a copy of the Certificate of Incorchange amendments or other Business Registr	rporation/ Organ ration Certificate	nization / as Attach	Limited Partne	ship (one page) including any nam	ıe
IF NO, provide a copy of the Certificate of Auth amendments or other Business Certificate as A		of LLC /	Registration (o	ne page) including any name chang	je
		-			
SECTION II. F	ACILITY INFO	RMATIC	N		
7. Type of plant or facility (stationary source) to be constructed, modified, relocated or administratively updated (e.g., coal	8a. Standard Classification	Industrial	AND 8t	o. North American Industry	
preparation plant, primary crusher, etc.):  Rock Crushing Mobile	Classification	SIC) code		System (NAICS) code:	

N/A

9. DAQ Plant ID No. (for existing facilities only):

10. List all current 45CSR13 and other General Permit numbers associated

with this process (for existing facilities only):

#### A: PRIMARY OPERATING SITE INFORMATION

11A. Facility name of primary operating site:	12A. Address of primary operating site:	
Sandstrom Treatment Facility	Mailing:	Physical:
	Intersection of Rt. 50/30 and 50/38	
13A. Does the applicant own, lease, have an option		posed site?
□ IF YES, please explain: Contracted for s	site construction work	
☐ IF NO, YOU ARE NOT ELIGIBLE FOR A PE		
14A. □ For Modifications or Administrative Up nearest state road;	pdates at an existing facility, please provide of	lirections to the present location of the facility from the
For Construction or Relocation permits, p MAP as Attachment F.	please provide directions to the proposed new	site location from the nearest state road. Include a
Secretary and personal resources of		
N/A		
15A. Nearest city or town:	16A. County:	17A. UTM Coordinates:
Greenwood	Doddridge	Northing (KM): 4346.7
Greenwood	Doddridge	Easting (KM): 509.2 Zone: 17
18A. Briefly describe the proposed new operation of	or change (s) to the facility:	19A. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits):
N/A		Latitude: <u>39.26982</u>
		Longitude:80.89233
B: 1 <sup>ST</sup> ALTERNATE OPERATIN	G SITE INFORMATION (only available for	G20, G40, & G50 General Permits)
11B. Name of 1 <sup>st</sup> alternate operating site:	12B. Address of 1 <sup>st</sup> alternate operating site:	
N/A	Mailing:	Physical:
13B. Does the applicant own, lease, have an option	n to buy, or otherwise have control of the prop	posed site?
□ IF YES, please explain:		
□ IF NO, YOU ARE NOT ELIGIBLE FOR A PE	RMIT FOR THIS SOURCE.	

14B. ♣ For Modifications or Administrative nearest state road;	e Updates at an existing facility, please pr	rovide directions to the present location of the facility from the
For Construction or Relocation permi MAP as Attachment F.	ts, please provide directions to the propos	sed new site location from the nearest state road. Include a
N/A		
-		
3		
8		
15B. Nearest city or town:	16B. County:	17B. UTM Coordinates:
		Northing (KM):
	1	Easting (KM):
100 Did I I I I		Zone:  19B. Latitude & Longitude Coordinates
18B. Briefly describe the proposed new operation	on or change (s) to the facility:	(NAD83, Decimal Degrees to 5 digits):
		Latitude:
		Longitude:
C: 2 <sup>ND</sup> ALTERNATE OPERA	TING SITE INFORMATION (only availab	ole for G20, G40, & G50 General Permits):
11C. Name of 2 <sup>nd</sup> alternate operating site:	12C. Address of 2 <sup>nd</sup> alternate operation	ng site:
N/A	Mailing:	Physical:
	wainig	i ilysical
13C. Does the applicant own, lease, have an o		
□ IF YES, please explain:		
➡ IF NO, YOU ARE NOT ELIGIBLE FOR A	PERMIT FOR THIS SOURCE.	
14C. ▷ For Modifications or Administrative nearest state road;	Updates at an existing facility, please pro	ovide directions to the present location of the facility from the
	s, please provide directions to the propose	ed new site location from the nearest state road. Include a
MAP as Attachment F.		
15C. Nearest city or town:	16C. County:	17C. UTM Coordinates:
130. Nearest City of town.	100. County.	Northing (KM):
		Easting (KM):
		Zone:
18C. Briefly describe the proposed new operation	on or change (s) to the facility:	19C. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits):
		Latitude:
		Longitude:

20. Provide the date of anticipated installation or change:	21. Date of anticipated Start-up if registration is granted:
20. Provide the date of anticipated installation of change.	
11 / 01 / 15	11 , 01 , 15
☐ If this is an After-The-Fact permit application, provide the date upon which the proposed change did happen: :	
22. Provide maximum projected <b>Operating Schedule</b> of activity/activity other than 24/7/52 may result in a restriction to the facility's operation)	rities outlined in this application if other than 8760 hours/year. (Note: anything .
Hours per day 24 Days per week 7 Weeks per	year 52 Percentage of operation 100
SECTION III. ATTACHMEN	TS AND SUPPORTING DOCUMENTS
23. Include a check payable to WVDEP – Division of Air Quality with t	he appropriate application fee (per 45CSR22 and 45CSR13).
24. Include a <b>Table of Contents</b> as the first page of your application	package.
All of the required forms and additional information can be found unde phone.	r the Permitting Section (General Permits) of DAQ's website, or requested by
25. Please check all attachments included with this permit application attachments listed below.	. Please refer to the appropriate reference document for an explanation of the
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★ ATTACHMENT B: PROCESS DESCRIPTION	
ATTACHMENT C: DESCRIPTION OF FUGITIVE EMIS	SIONS
ATTACHMENT D: PROCESS FLOW DIAGRAM	SOLONO
ATTACHMENT E: PLOT PLAN     ATTACHMENT E: PLOT PLAN	
ATTACHMENT F: AREA MAP	
☐ ATTACHMENT G: EQUIPMENT DATA SHEETS AND	PEGISTRATION SECTION APPLICABILITY FORM
☐ ATTACHMENT B. EQUIPMENT DATA SHEETS AND	
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ATTACHMENT J: CLASS I LEGAL ADVERTISEMENT	
ATTACHMENT 6: CLASS TEEGAL ADVERTISEMENT	
	N APPLICATION FEE
☐ ATTACHMENT M: SITING CRITERIA WAIVER	N AFFLICATION FEE
ATTACHMENT N: MATERIAL SAFETY DATA SHEET	TO (MODO)
ATTACHMENT N: MATERIAL SAFETY DATA SHEET  ATTACHMENT O: EMISSIONS SUMMARY SHEETS	2 (M2D2)
	ODIDED ADOLIE (F i
UTHER SUPPORTING DOCUMENTATION NOT DES	CRIBED ABOVE (Equipment Drawings, Aggregation Discussion, etc.)
the address shown on the front page of this application. Please DO No	Registration Application with the signature(s) to the DAQ Permitting Section, at DT fax permit applications. For questions regarding applications or West a shown on the front page of the application or call the phone number also

#### SECTION IV. CERTIFICATION OF INFORMATION

This General Permit Registration Application shall be signed below by a Responsible Official. A Responsible Official is a President, Vice President, Secretary, Treasurer, General Partner, General Manager, a member of a Board of Directors, or Owner, depending on business structure. A business may certify an Authorized Representative who shall have authority to bind the Corporation, Partnership, Limited Liability Company, Association, Joint Venture or Sole Proprietorship. Required records of daily throughput, hours of operation and maintenance, general correspondence, Emission Inventory, Certified Emission Statement, compliance certifications and all required notifications must be signed by a Responsible Official or an Authorized Representative. If a business wishes to certify an Authorized Representative, the official agreement below shall be checked off and the appropriate names and signatures entered. Any administratively incomplete or improperly signed or unsigned Registration Application will be returned to the applicant.

Representative, the official agreement below shall be checked off and the appropriate names and signatures entered incomplete or improperly signed or unsigned Registration Application will be returned to the applicant.	
FOR A CORPORATION (domestic or foreign)  I certify that I am a President, Vice President, Secretary, Treasurer or in charge of a principal busi corporation	iness function of the
FOR A PARTNERSHIP  ☐ I certify that I am a General Partner	
FOR A LIMITED LIABILITY COMPANY  I certify that I am a General Partner or General Manager	
FOR AN ASSOCIATION  ☐ I certify that I am the President or a member of the Board of Directors	
FOR A JOINT VENTURE  ☐ I certify that I am the President, General Partner or General Manager	
FOR A SOLE PROPRIETORSHIP  ☐ I certify that I am the Owner and Proprietor	
I hereby certify that (please print or type) Ashley L. Lioi is an Authorized Representative and in that capacity shall represent the interest of the business (e.g., Corporation, P. Liability Company, Association Joint Venture or Sole Proprietorship) and may obligate and legally bind the business changes its Authorized Representative, a Responsible Official shall notify the Director of the Office of Air Quality imm	If the business
I hereby certify that all information contained in this General Permit Registration Application and any supporting docu hereto is, to the best of my knowledge, true, accurate and complete, and that all reasonable efforts have been made comprehensive information possible	
Signature (please use blue ink) Responsible Official	23 2015
Name & Title Ashley L. Lioi - Principal Engineer/Shareholder	
Signature (please use blue ink)  Authorized Representative (if applicable)	23 2015
Applicant's Name Kanawha Stone Company	ne -
Phone & Fax Phone (304) 75508271 Fax - (304) 755-8274	
Email_ashleylioi@kanawhastone.com	

## ATTACHMENT A: CURRENT BUSINESS CERTIFICATE

# WEST VIRGINIA STATE TAX DEPARTMENT BUSINESS REGISTRATION CERTIFICATE

ISSUED TO:
KANAWHA STONE CO INC
PO BOX 503
NITRO, WV 25143-0503

BUSINESS REGISTRATION ACCOUNT NUMBER:

1035-8859

This certificate is issued on:

09/13/2010

This certificate is issued by the West Virginia State Tax Commissioner in accordance with Chapter 11, Article 12, of the West Virginia Code

The person or organization identified on this certificate is registered to conduct business in the State of West Virginia at the location above.

This certificate is not transferrable and must be displayed at the location for which issued.

This certificate shall be permanent until cessation of the business for which the certificate of registration was granted or until it is suspended, revoked or cancelled by the Tax Commissioner.

Change in name or change of location shall be considered a cessation of the business and a new certificate shall be required.

TRAVELING/STREET VENDORS: Must carry a copy of this certificate in every vehicle operated by them. CONTRACTORS, DRILLING OPERATORS, TIMBER/LOGGING OPERATIONS: Must have a copy of this certificate displayed at every job site within West Virginia.

atL006 v.3 L1587351296



### **CONTRACTOR LICENSE**

Authorized by the

**West Virginia Contractor Licensing Board** 

Number:

WV006094

Classification:

GENERAL BUILDING GENERAL ENGINEERING

> KANAWHA STONE COMPANY INC DBA KANAWHA STONE COMPANY INC PO BOX 503 NITRO, WV 25143-0503

**Date Issued** 

**Expiration Date** 

SEPTEMBER 24, 2015

SEPTEMBER 24, 2016

Authorized Company Signature

Chair, West Virginia Contractor

Licensing Board

This license, or a copy thereof, must be posted in a conspicuous place at every construction site where work is being performed. This license number must appear in all advertisements, on all bid submissions and on all fully executed and binding contracts. This license cannot be assigned or transferred by licensee. Issued under provisions of West Virginia Code, Chapter 21, Article 11.



## ATTACHMENT B: PROCESS DESCRIPTION

#### PROCESS DESCRIPTION FOR KANAWHA STONE COMPANY'S CRUSHERS

Two Terex Finlay J-1160 crushers will be used for this project (Spec. Sheet attached). The process description for the project is as follows:

Shot rock is pushed to the shot rock pile (OS-1 and TP-1). An excavator (TP-2) transfers the shot rock to the jaw crushers (C-001 or C-002). The crushed rock is dumped from the crusher to the crushed product stockpile (TP-3 and TP-4). The crushed product is taken from the stockpile by an excavator and transferred to trucks for transportation to the final use site (TP-5 and TP-6).

## ATTACHMENT C: DESCRIPTION OF FUGITIVE EMISSIONS

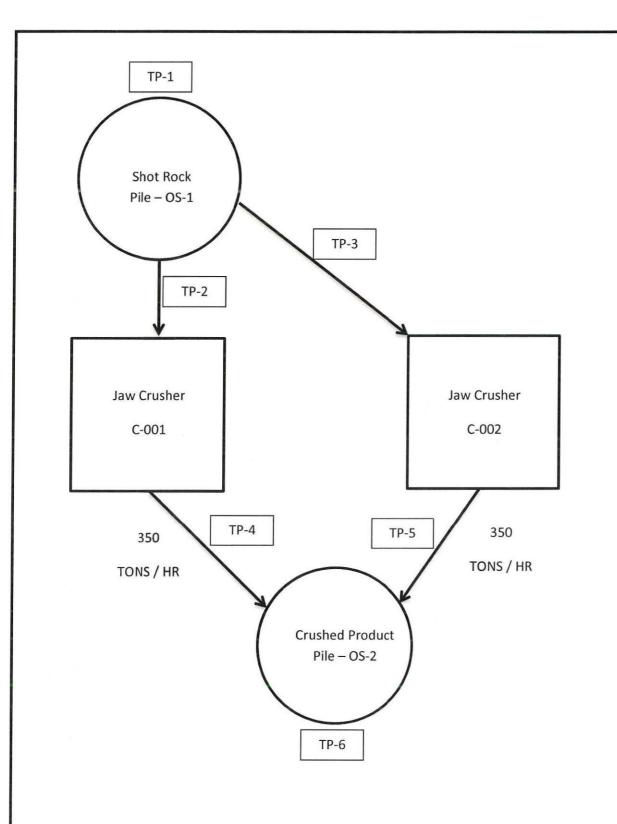
#### FUGITIVE EMISSIONS FOR KANAWHA STONE COMPANY'S CRUSHERS

Fugitive emissions points for the crusher are the unpaved haulroads and stockpiles. A water truck will be utilized to pump and spray water on haul roads and stockpiles. Water will be utilized for dust control. The water truck will be kept in a warm area when not in use. A water truck will be utilized for dust control along the haul road.

The haul roads and stockpiles will be sprayed on an as-needed basis to minimize dust. There are not any plans for the utilization of chemical suppressants. The haul road is coarse stone.

A water spray system will be installed at all the transfer points, conveyors, etc to minimize dust.

## ATTACHMENT D: PROCESS FLOW DIAGRAM





#### TERRADON CORPORATION

P.O. Box 519 Nitro, West Virginia 25143 (304) 755-8291 FAX (304) 755-2636 Project

KANAWHA STONE COMPANY, INC.
PROCESS DIAGRAM
CRUSHING UNIT

Scale

**NO SCALE** 

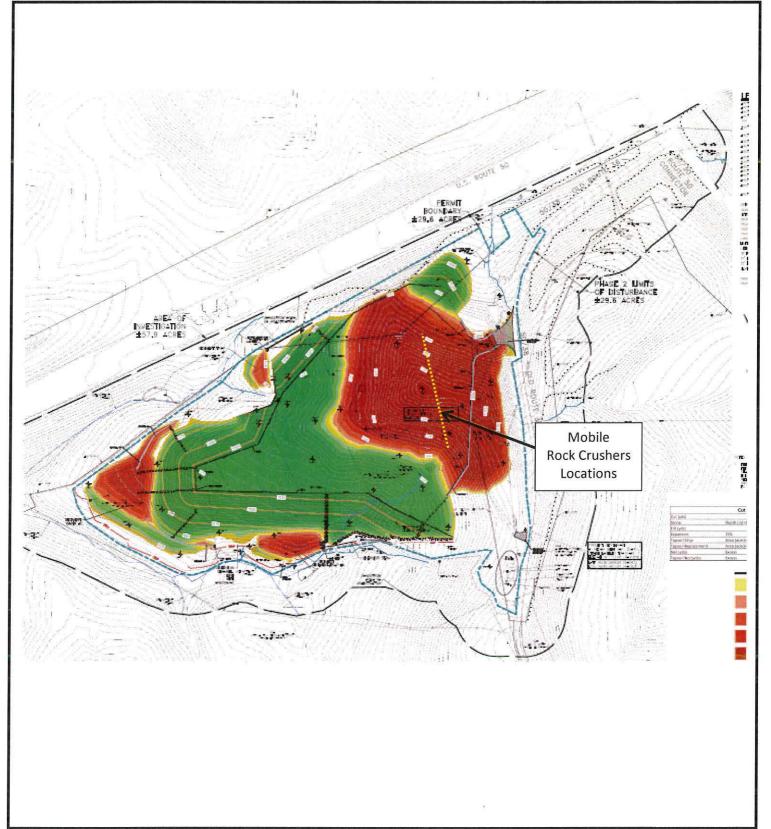
Date

SEPTEMBER 2015

Dwg. No.

FIG. 3

## ATTACHMENT E: PLOT PLANS





#### TERRADON CORPORATION

P.O. Box 519 Nitro, West Virginia 25143 (304) 755-8291 FAX (304) 755-2636 Project

Date

KANAWHA STONE COMPANY, INC. Mobile Rock Crusher Deployment on Site

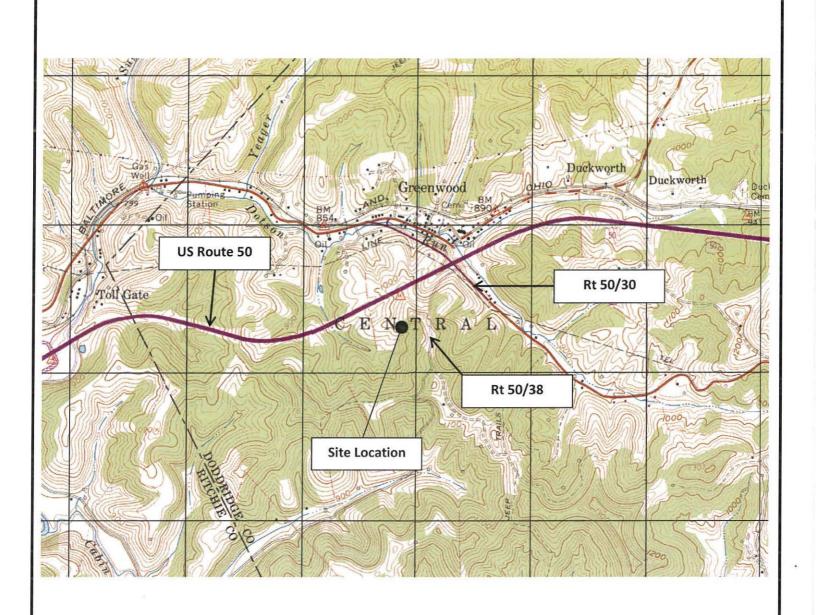
Scale

NO SCALE

SEPTEMBER 2015

Dwg. No.

## ATTACHMENT F: AREA MAPS





#### TERRADON CORPORATION

P.O. Box 519 Nitro, West Virginia 25143 (304) 755-8291 FAX (304) 755-2636 Project

KANAWHA STONE COMPANY, INC. Sandstrom Treatment Facility Project Site Location Map

Scale

NO SCALE

Dwg. No.

\_\_\_\_

Base Map: USGS Topo Pennsboro, WV Quad.

Date

SEPTEMBER 2015

## ATTACHMENT G: AFFECTED SOURCE SHEETS

#### CRUSHING AND SCREENING AFFECTED SOURCE SHEET

Source Identification Number <sup>1</sup>		CR-1	CR-2	
Type of C	Crusher or Screen <sup>2</sup>	JC	JC	
Make, Moo	lel No., Serial No. <sup>3</sup>	Terex Finlay J-1160	Terex Finlay J-1160	
	action, Reconstruction, tion (Month/Year) <sup>4</sup>			
Maximum	tons/hour	350	350	
Throughput <sup>5</sup>	tons/year	3,066,000	3,066,000	
Material	sized from/to:6	2'/6"	2'/6"	
Average Mo	oisture Content (%) <sup>7</sup>	10%	10%	
Control De	evice ID Number <sup>8</sup>	TCWS-1	TCWS-2	
	height (ft)	N/A	N/A	
Baghouse	diameter (ft)			
Stack	volume (ACFM)			
Parameters <sup>9</sup>	exit temp (F)			
	UTM Coordinates			
Maximum	hours/day	24	24	
Operating	days/year	365	365	
Schedule <sup>10</sup>	hours/year	8,760	8,760	

Enter the appropriate Source Identification Number for each crusher and screen. For example, in the case of an operation
which incorporates multiple crushers, the crushers should be designated CR-1, CR-2, CR-3 etc. beginning with the breaker
or primary crusher. Multiple screens should be designated S-1, S-2, S-3 etc.

2. Describe types of crushers and screens using the following codes:

HM	Hammermill	SS	Stationary Screen	DR	Double Roll Crusher
SD	Single Deck Screen	BM	Ball Mill	DD	Double-Deck Screen
RB	Rotary Breaker	TD	Triple Deck Screen	JC	Jaw Crusher
GC	Gyratory Crusher	OT	Other		

- 3. Enter the make, model number, and serial number of the crusher/screen.
- 4. Enter the date that each crusher and screen was constructed, reconstructed, or modified.
- 5. Enter the maximum throughput for each crusher and screen in tons per hour and tons per year.
- 6. Describe the nominal material size reduction (e.g. +2"/-3/8").
- 7. Enter the average percent moisture content of the material processed.
- 8. Enter the appropriate Control Device Identification Number for each crusher and screen. Refer to Table A Control Device Listing and Control Device Identification Number Instructions in the Reference Document for Control Device ID prefixes and numbering.
- 9. Enter the appropriate stack parameters if a baghouse control device is used.
- 10. Enter the maximum operating schedule for each crusher and screen in hours per day, days per year and hours per year.

## ATTACHMENT H: BAGHOUSE AIR POLLUTION CONTROL DEVICE SHEET

**NOT APPLICABLE** 

#### ATTACHMENT I: EMISSIONS CALCULATIONS

-	- 4	-	_		-
	N I	D		т	c

Include all information for each emission source and transfer point as listed in the permit application.

Name of applicant: Name of plant: Kanawha Stone Company Sandstrom Facility

Page 1

#### 1. CRUSHING AND SCREENING (including all primary and secondary crushers and screens)

#### 1a. PRIMARY CRUSHING

Primary Crusher D ID Number	Description	Maximu Process	Control Device	Control Efficiency	
		IPH	IPY	ID Number	%
1	J-1160	350	3,066,000	TCWS-T	70
1	J-1160	350	3,066,000	TCWS-2	70
			<b>-</b>		

#### 1D. SECUNDARY AND TERTIARY CRUSHING

Secondary & Lertiary	Description	Maximum Processin		Control Device ID Number	Control Efficiency %
Crusher ID		TPH	TPY		

#### 1C. SCREENING

Secondary & Lertiary	Description		Maximum Material Processing Capacity		
Crusher ID		TPH	TPY	ID Number	%
				_	
				_	
				+	
				_	
				-	
		-		-	

#### 2. TRANSFER POINTS (including all conveyor transfer points, equipment transfer points etc.)

 k =
 Particle Size Multiplier (dimensionless)
 PM-10

 U =
 Mean Wind Speed (mph)
 7

Transfer	Transfer Point Description	Material	1	Maximum	Control	Control
Point	Include ID Numbers of all conveyors,	Moisture		ansfer Rate	Device	Efficiency
ID No.	crushers, screens, stockpiles, etc. involved	Content %	TPH	TPY	ID Number	%
TP-1	Loader to OS-1	10	350	3,066,000	TCWS-1	70
TP-2	Excavator to C-001	10	350	3,066,000	TCWS-1	70
TP-3	C-001 to OS-2	10	350	3,066,000	TCWS-1	70
TP-4	Loader to OS-1	10		3,066,000	TCWS-2	70
			350		TOWS-2	
TP-5	Excavator to C-002	10	350	3,066,000	TCWS-2	70
TP-6	C-002 to OS-2	10	350	3,066,000	TCWS-2	70
			1			
			1			
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3	WIND EROSION OF STOCKPILES	(including al	I stockniles of raw coal	clean coal	coal refuse e	tc

p =	number of days per year with precipitation >0.01 inch	157
f =	percentage of time that the unobstructed wind speed	20
	exceeds 12 mph at the mean pile height	

Source	Stockpile	Silt	Stockpile	Control	Control
ID No.	Description	Content of	base area	Device	Efficiency
		Material %	Max. sqft	ID Number	%
OS-1	Shot Rock Pile	10	310,000	TCWS-1	70
OS-2	Finished Stockpile	10	165,000	TCWS-2	70

4. UNPA	VED HAULROADS (including all equipment traffic involved i	n process, haul tr	rucks, endloaders, etc.)
s =	silt content of road surface material (%)	10	* Ove to cell protection
p =	number of days per year with precipitation >0.01 inch	157	7. S. C.
$M_{dry} =$	surface material moisture content (%) - dry conditions	0.2	the number could not be

displayed.

Item	Description	Number of	Mean Vehicle	Mean Vehicle	Miles per	Maximum Trips Per	Maximum Trips Per	Control Device	Control Efficiency
Number	Description	wheels	Weight(tons)	Speed (mph)	Trip	Hour	Year	ID Number	3.50
			100				10.000	TO: 1/0 /	70
1	Delivery of Raw Stone	4	100	10	4	5	43,800	TCWS-1	
2	Front End Loader	4	20	10	0.5	25	214,000	TCWS-1	70
3	Shipping of Processed Stone	6	100	10	4	5	43,800	TCWS-2	70
4									
5									
6									
7									
8									

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

sL =	road surface silt loading, (g/ft^2)	70
P =	number of days per year with precipitation >0.01 inch	157

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					Т		
2							
3							
4							
5							
6							
7							
8							

#### ATTACHMENT J: CLASS I LEGAL ADVERTISEMENT

#### AIR QUALITY PERMIT NOTICE Notice of Application

Notice is given that Kanawha Stone Company has applied to the West Virginia Department of Environmental Protection, Division of Air Quality, for a Relocation Permit for a rock crushing and screening operation at the following locations in Doddridge County, West Virginia:

Intersection of Rt. 50/30 and 50/38 (Sandstrom Treatment Facility location) in Greenwood, WV.

The applicant estimates the potential to discharge the following Regulated Air Pollutants will be 21 tons per year of controlled particulate matter per project.

Startup of operation is planned to begin on or about the 1<sup>st</sup> day of November 2015. 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 1227, during normal business hours.

Dated this the \_\_\_\_\_ of September 2015.

Kanawha Stone Company

By: Arthur L. King

Its: President

P. O. Box 503 Nitro, WV 25143

## ATTACHMENT K: ELECTRONIC SUBMITTAL DISKETTE

## ATTACHMENT L: GENERAL PERMIT REGISTRATION APPLICATION FEE

# ATTACHMENT M: SITTING CRITERIA WAIVER NOT APPLICABLE

## ATTACHMENT N: MATERIAL SAFETY DATA SHEETS (MSDS)



Material Name: Crushed Stone Synonyms: Construction Aggregate

#### Section 1 - Product and Company Identification

#### **Manufacturer Information**

Peckham Industries Inc.

20 Haarlem Ave.

White Plains, NY 10603 Phone: 914-949-2000 www.peckham.com

#### Section 2 - Hazardous Identification

#### **GHS Classification:**

Acute Toxicity Oral – Category 4 Skin Corrosion/Irritation – Category 2 Eye Damage/Irritation – Category 2 Carcinogenicity – Category 1

Specific Target Organ Toxicity Repeat Exposure - Category 1

#### **GHS LABEL ELEMENTS**

#### Symbol(s)



#### Signal Word

Danger

#### **Hazard Statements**

Harmful if swallowed.

Causes skin and eye irritation.

May cause cancer.

Causes damage to organs (lungs) through prolonged or repeated exposure.

#### **Precautionary Statements**

#### Prevention

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/protective clothing/eye protection/face protection.

Do not breath dust.

#### Material name: Crushed Stone

#### Response

If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth.

If on skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### Storage

Store in an appropriate container or containment structure.

#### Disposal

Dispose of contents/container in accordance with local/regional/nation/international regulations.

#### Section 3 – Composition/Information on Ingredients

CAS#	Component	Percent
Not Available	Metamorphic, Igneous, or Sedimentary Rock	97-99
14808-60-7	Quartz	>1

#### Component Information/Information on Non-Hazardous Components

#### **General Product Information**

Trace Elements: These materials are mined from the earth. Trace amounts of naturally occurring elements might be detected during chemical analysis of these materials.

#### Section 4 - First Aid Measures

#### First Aid: Eyes

Immediately flush eyes thoroughly with water. Call physician if irritation persists.

#### First Aid: Skin

Wash skin with soap and water. Call physician if irritation persists.

#### First Aid: Ingestion

Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician for medical advice.

#### First Aid: Inhalation

Remove to fresh air. Seek medical help if coughing and other symptoms do not subside.

#### Section 5 – Fire Fighting Measures

#### **General Fire Hazards**

See Section 9 for Flammability Properties.

None

#### **Hazardous Combustion Products**

None

#### **Extinguishing Media**

Use appropriate extinguishing media for surrounding fire.

#### Unsuitable Extinguishing Media

None

Page 2 of 7	Issue Date: 02/19/15	Revision 1.0000	Print Date: 02/19/15

#### **Material Name: Crushed Stone**

#### Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

#### Section 6 - Accidental Release Measures

#### Recovery and Neutralization

Avoid actions that cause dust to become airborne. Avoid inhalation of dust and contact with skin. Wear appropriate personal protective equipment as described in Section 8.

#### Materials and Methods for Clean-Up

Vacuum cleaning is the preferred method for the dry fine materials. Avoid dry sweeping which creates dust. Apply water spray to prevent airborne dust. Scrape up wet material and place in an appropriate container.

#### **Emergency Measures**

Isolate area. Keep unnecessary personnel away.

#### Personal Precautions and Protective Equipment

Wear protective equipment and clothing during clean-up.

#### **Environmental Precautions**

None

#### Prevention of Secondary Hazards

None

#### Section 7 - Handling and Storage

#### **Handling Procedures**

Wash thoroughly after exposure to dust. Promptly remove dusty clothing and launder before use.

#### **Storage Procedures**

Normal temperatures and pressures do not affect the material.

#### **Incompatibilities**

None

#### Section 8 - Exposure Controls/ Personal Protection

#### **Component Exposure Limits**

Quartz (14808-60-7)

ACGIH:

0.025 mg/m3 TWA (respirable fraction)

NIOSH:

0.05 mg/m3 TWA (respirable dust)

#### **Engineering Measures**

Use local exhaust or general dilution ventilation to control exposure within applicable limits.

#### Personal Protective Equipment: Respiratory

Avoid actions that cause dust exposure to occur. Use local or general ventilation to control exposures below applicable exposure limits. NIOSH or MSHA approved particulate filter respirators should be used in the context of respiratory protection program meeting the requirements of the OSHA respiratory protection standard [29 CFR 1910.134] to control exposures when ventilation or other controls are inadequate or discomfort or irritation is experienced. Respirator and/or filter cartridge selection should be based on American National Standards Institute (ANSI) Standards Z88.2 Practices for Respiratory Protection.

#### Personal Protective Equipment: Hands

Where prolonged exposure to products might occur, wear impervious gloves to eliminate skin contact.

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#### **Material Name: Crushed Stone**

#### Personal Protective Equipment: Eyes

When engaged in activities where ingredients could contact the eye, wear safety glasses with side shields or goggles. In extremely dusty environments and unpredictable environments, wear unvented or indirectly vented goggles to avoid eye irritation or injury. Contact lenses should not be worn when working with ingredients.

#### Personal Protective Equipment: Skin and Body

Normal work clothing (long sleeved shirts and long pants) is recommended.

#### Section 9 – Physical & Chemical Properties

Granular Mixture- Various Appearance:

Odor:

No Distinct Odor

Not Applicable

colors

Physical State: Solid Vapor Pressure:

Not Applicable Not Applicable

Not Applicable Not Applicable

Vapor Density: Not Applicable Melting Point: Not Applicable Specific Gravity: 2.25-2.80

**Evaporation Rate:** Octanol/H2O Coeff: Not Applicable

VOC: Flash Point: Not Applicable

Flash Point Method: Not Applicable

None Upper Flammability Limit: None

pH:

Lower Flammability Limit: None

(UFL):

Burning Rate: None

(LFL):

**Auto Ignition:** 

**Boiling Point:** 

Solubility(H2O):

None

#### Section 10 - Chemical Stability & Reactivity Information

#### **Chemical Stability**

This is a stable material.

#### **Hazardous Reaction Potential**

Will not occur.

#### Conditions to Avoid

Contact with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, and oxygen difluoride may cause fire and/or explosions. Silica dissolves in hydrofluoric acid producing gas- silicon ictrafluoride.

#### **Incompatible Products**

None.

#### **Hazardous Decomposition Products**

#### Section 11 - Toxicological Information

#### **Acute Toxicity**

#### Component Analysis - LD50/LC50

Ouartz (14808-60-7)

Oral LD50 Rat 500 mg/kg

#### Potential Health Effects: Skin Corrosion Property/Stimulativeness

This product can cause abrasion and irritation to the skin.

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#### **Material Name: Crushed Stone**

#### Potential Health Effects: Eye Critical Damage/Stimulativeness

Exposure to airborne dust during the handling of this product may cause immediate or delayed irritation.

#### Potential Health Effects: Ingestion

This product can cause gastrointestinal irritation if ingested.

#### Potential Health Effects: Inhalation

The ingredients in this product could contain crystalline silica. Exposure to these ingredients in excess of the applicable TLV or PEL may cause or aggravate other lung conditions. Exposure may cause irritation to the moist mucous membranes of the nose, throat, and upper respiratory system.

#### Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any sensitization effects.

#### Generative Cell Mutagenicity

This product is not reported to have any mutagenic effects.

#### Carcinogenicity

#### A. General Product Information

May cause cancer.

Exposures to respirable crystalline silica are not expected during the normal use of this product. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease and/or lung cancer. IARC states that crystalline silica in the form of quartz or cristobalite from occupational sources is carcinogenitic to humans (Group 1).

#### **B.** Component Carcinogenicity

#### Quartz (14808-60-7)

ACGIH: A2- Suspected Human Carcinogen

NIOSH:

Potential occupational carcinogen

NTP:

Known Human Carcinogen (respirable size) (Select Carcinogen)

IARC:

Monograph 100C [2012](listed under Crystalline silica inhaled in the form of quartz or

cristobalite from occupational sources); Monograph 68 [1997] (Group 1(carcinogenic to

humans)).

#### Reproductive Toxicity

This product is not reported to have any reproductive toxicity effects.

#### Specified Target Organ General Toxicity: Single Exposure

This product is not reported to have any single exposure specific target organ toxicity effects.

#### Specified Target Organ General Toxicity: Repeated Exposure

Causes damage to organs (lungs) through prolonged or repeated exposure.

#### Aspiration Respiratory Organs Hazard

This product is not reported to have any aspiration hazard effects.

#### Section 12 – Ecological Information

#### **Ecotoxicity**

#### A. General Product Information

This product is not reported to have any ecotoxicity effects. Dust can cause soiling and damage sensitive vegetation after prolonged exposure. Aggregates are classified inert and not considered to pose ecological concern.

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Material Name: Crushed Stone

#### B. Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

#### Persistence/Degradability

No information available for the product.

#### Bioaccumulation

No information available for the product.

#### **Mobility in Soil**

No information available for this product.

#### Section 13 - Disposal Considerations

#### Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

#### Disposal of Contaminated Containers or Packing

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Section 14 – Transportation Information

#### **DOT Information**

Shipping Name: Not Regulated

Additional Info: Dry fine materials best transported by bulk tanker or sealed bags. Aggregates should be

sheeted or conditioned with water to minimize dust.

#### Section 15 - Regulatory Information

#### **Regulatory Information**

#### **US Federal Regulations**

#### **Component Analysis**

None of this product's components are listed under SARA Section 302 (40 CFR 335 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

#### **State Regulations**

#### Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Quartz	14808-60-7	No	Yes	Yes	Yes	Yes	No

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#### Material Name: Crushed Stone

Component Analysis - WHMIS IDL

Component	CAS#	Minimum Concentration
Quartz	14808-60-7	1 %

#### **Additional Regulatory Information**

Component Analysis - Inventory

Component	CAS#	TSCA	CAN	EEC
Quartz	14808-60-7	Yes	DSL	EINECS

#### Section 16 - Other Information

	Health	1
Hazardous Material Information System (HMIS):	Plannability	0
	Physical Hazard	0
	Personal Protection	A

NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

Protective Equipment: Safety glasses, gloves

#### Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

#### Literature References

None

#### Other Information

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		End of Sheet	
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#### ATTACHMENT O: EMISSIONS SUMMARY SHEETS

#### **EMISSIONS SUMMARY**

Name of applicant:

Kanawha Stone Company

Name of plant:

Sandstrom Facility

#### Particulate Matter or PM (for 45CSR14 Major Source Determination)

Uncontr	olled PM	Contro	olled PM
lb/hr	TPY	lb/hr	TPY

Stockpile Emissions	6.08	26.62	1.82	7.99
Unpaved Haulroad Emissions	962.44	4,215.51	288.73	1,264.65
Paved Haulroad Emissions	0.00	0.00	0.00	0.00

Equipment Emissions Transfer Point Emissions	1.40 0.81	6.13 3.54	0.42	1.84
Point Source Emissions Total*	2.21	9.68	0.66	2.90

Facility Emissions Total 970.	3 4,251.80	291.22 1,275.54
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*Facility Potential to Emit (PTE)	(Baseline Emissions)	=	2.90
(Based on Point Source Total controlled PM TPY emission	ns from above)	ENTER ON LINE 26 OF	APPLICATION

#### Particulate Matter under 10 microns, or PM-10 (for 45CSR30 Major Source Determination)

Uncontro	olled PM-10	Contro	lled PM-10
lb/hr	TPY	lb/hr	TPY
10/111	11 1	10/111	11-1

Stockpile Emissions	2.86	12.51	0.86	3.75
Unpaved Haulroad Emissions	284.08	1,244.25	85.22	373.28
Paved Haulroad Emissions	0.00	0.00	0.00	0.00

	POINT SO	JRCE EMISSIONS		
Equipment Emissions	0.70	3.07	0.21	0.92
Transfer Point Emissions	0.38	1.68	0.11	0.50
Point Source Emissions Total*	1.08	4.74	0.32	1.42

Facility Emissions Total 288.01 1,261.50	86.40 378.45	
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