



Maryland
Department of
the Environment

Larry Hogan, Governor
Boyd K. Rutherford, Lt. Governor
Ben Crumbles, Secretary
Horacio Tablada, Deputy Secretary

SEP 27 2021

Mr. Collin Sumpter, Resource Manager
Savage Stone, LLC
P.O. Box 850
Laurel, MD 20725

Dear Mr. Sumpter:

Enclosed please find your State Permit to Operate for the Savage Stone, LLC facility located in Jessup, MD 20794. The permit will expire on September 30, 2026. The permit contains both general conditions, which apply to all permit-to-operate holders in Maryland, and specific conditions, which apply to your facility's particular operations.

Please be reminded that an emissions-based fee must be paid annually and is due by the anniversary date of the permit. The Department will bill you prior to the anniversary date for the annual fee.

If you have any questions regarding the issuance of this permit or the annual fee, please contact Sarah Wells at (410) 537-3254.

Sincerely,

A handwritten signature in black ink, appearing to read "Suna Yi Sariscak".

Suna Yi Sariscak, Manager
Air Quality Permits Program
Air & Radiation Administration

SYS/zc

Enclosure

cc: Dan Davis with copy of permit
Howard County Health Department ✓

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State of



Maryland

Larry Hogan
Governor

Ben Grumbles
Secretary

DEPARTMENT OF THE ENVIRONMENT

Air and Radiation Administration
1800 Washington Boulevard, Suite 720
Baltimore, MD 21230

Construction Permit

Operating Permit

PERMIT NO. 027-0489

DATE ISSUED OCT - 1 2021

PERMIT FEE To Be Paid in Accordance
With COMAR 26.11.02.19B

EXPIRATION DATE September 30, 2026

LEGAL OWNER & ADDRESS

Savage Stone, LLC
P.O. Box 850
Laurel, MD 20725
Attn: Mr. Collin Sumpter, Resource Manager

SITE

Savage Stone, LLC
8420 Washington Blvd
Jessup, MD 20794
Premises # 027-0489
AI # 26894

SOURCE DESCRIPTION

One (1) 1,200 ton per hour, electric powered, stone crushing and screening plant controlled by two (2) baghouses and wet suppression systems.

This source is subject to the conditions described on the attached pages.

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Program Manager

Director, Air and Radiation Administration

**SAVAGE STONE, LLC
PERMIT-TO-OPERATE
PERMIT No. 027-0489**

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This permit-to-operate incorporates requirements for the following registered installations:

ARA Registration Number	Description	Date of Installation
024-0489-6-0371	<p>One (1) 1,200 ton per hour (tph) stone crushing and screening plant, powered by electricity, and controlled by two (2) dust collection systems, a dust loadout system, and wet suppression.</p> <p>See Part G of this permit for equipment details.</p>	<p style="text-align: center;">2006</p> <p>Modified in 2007 to add a dust loadout system.</p> <p>Modified in 2011 to add a hopper and conveyor.</p> <p>Modified in 2017 to add four (4) conveyors and remove one (1) screen.</p>
024-089-6-0459	<p>One (1) 660 tph portable screening plant, processing dirty shot rock, and consisting of the following equipment:</p> <ul style="list-style-type: none"> • One (1) 660 tph hopper/feeder; • One (1) 440 tph Powerscreen Powertrak 750 scalping screen; • One (1) conveyor; and • One (1) 74 hp diesel engine. 	2016
024-089-6-0462	<p>One (1) 700 tph portable screening plant, processing dirty shot rock, powered by electricity, and consisting of the following equipment:</p> <ul style="list-style-type: none"> • One (1) 700 tph hopper/feeder; • One (1) 550 tph Steel Systems Installation, Inc. (SSI) screen; and • Four (4) conveyors. 	2016

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024-089-6-0463	One (1) 400 tph portable screening plant processing dirty shot rock and consisting of the following equipment: <ul style="list-style-type: none">• One (1) 400 tph hopper/feeder;• One (1) 440 tph Metso Lokotrack ST2 scalping screen;• Three (3) conveyors; and• One (1) 100 hp diesel engine.	2016
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Part A – General Provisions

- (1) The application (Form 26) received at the Maryland Department of the Environment (“Department”) on July 30, 2021 for the renewal of the Permittee’s permit-to-operate is incorporated into this permit by reference. If there are any conflicts between representations in the application and representations in this permit, the representations in the permit shall govern. Estimates of dimensions, volumes, emissions rates, operating rates, feed rates and hours of operation included in the application for renewal do not constitute enforceable numeric limits beyond the extent necessary for compliance with applicable requirements.
- (2) Upon presentation of credentials, representatives of the Maryland Department of the Environment and the Howard County Health Department shall at any reasonable time be granted, without delay and without prior notification, access to the Permittee’s property and permitted to:
 - (a) determine compliance with the requirements of this permit and any applicable regulations;
 - (b) sample, as necessary to determine compliance with requirements of this permit and applicable regulations, any materials stored or processed on site, any waste materials, and any discharge into the environment;
 - (c) inspect any monitoring equipment required by applicable regulations or by any permit issued by the Department’s Air and Radiation Administration;
 - (d) review and copy any records, including all documents required to be maintained by this permit and by applicable regulations, relevant to the Department’s determination of compliance with an air pollution control requirement; and

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- (e) obtain any photographic documentation or evidence necessary to determine compliance with the requirements of this permit and applicable regulations.
- (3) If any provision of this permit is declared by proper authority to be invalid, the remaining provisions of the permit shall remain in effect.
- (4) Nothing in this permit authorizes the violation of any rule or regulation or the creation of a nuisance or air pollution.

Part B – Applicable Regulations

- (1) This source is subject to all applicable federal air pollution control requirements including, but not limited to, the following regulations:
 - (a) All applicable terms, provisions, emissions standards, testing, monitoring, record keeping, and reporting requirements included in federal New Source Performance Standards (NSPS) promulgated under 40 CFR 60, Subparts A and OOO for Nonmetallic Mineral Processing Plants.
 - (b) All notifications required under 40 CFR 60, Subparts A and OOO shall be submitted to both of the following:

The Administrator
Compliance Program
Maryland Department of the Environment
Air and Radiation Administration
1800 Washington Boulevard, STE 715
Baltimore MD 21230

and

Director, Air Protection Division
U.S. EPA – Region 3
Mail Code 3AP00
1650 Arch Street
Philadelphia, PA 19103-2029
- (2) This source is subject to all applicable federally enforceable State air pollution control requirements including, but not limited to, the following regulations:

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- (a) COMAR 26.11.01.07C, which requires that the Permittee report to the Department occurrences of excess emissions.
- (b) COMAR 26.11.02.09A, which requires that the Permittee obtain a permit-to-construct if an installation is to be modified in a manner that would cause a change in the quantity, nature, or characteristics of emissions referenced in the permit-to-construct issued for that installation.
- (c) COMAR 26.11.06.02C(2), which prohibits visible emissions other than uncombined water.
- (d) COMAR 26.11.06.03B(2), which limits the concentration of particulate matter in any exhaust gases to not more than 0.03 grains per standard cubic foot of dry exhaust gas.
- (e) COMAR 26.11.06.03C and D, which requires that the Permittee take reasonable precautions to prevent particulate matter from unconfined sources and materials handling and construction operations from becoming airborne.
- (f) COMAR 26.11.06.12, which states that a person may not construct, modify, or operate, or cause to be constructed, modified, or operated, a New Source Performance Standard (NSPS) source in a manner which results or will result in violation of the provisions of 40 CFR, Part 60.
- (g) COMAR 26.11.09.05A(2), which prohibits visible emissions other than uncombined water from fuel burning equipment.

Exceptions. The visible emissions standard in COMAR 26.11.09.05A(2) does not apply to emissions during load changing, soot blowing, start-up, or adjustments, or occasional cleaning of control equipment, if: (i) the visible emissions are not greater than 40 percent opacity; and (ii) the visible emissions do not occur for more than 6 consecutive minutes in any 60 minute period.

- (h) COMAR 26.11.09.05E, which limits visible emissions from the diesel engines to 10% and 40% opacity during idle and operating modes, respectively. Exceptions to these opacity limits are as follows:
 - (i) The 10% opacity limit during idle mode does not apply for a period of 2 consecutive minutes after a period of idling of 15

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- minutes for the purpose of clearing the exhaust system;
- (ii) The 10% opacity limit during idle mode does not apply to emissions resulting directly from a cold engine start-up and warm-up for the following maximum periods:
 - (A) Engines that are idling continuously when not in service: 30 minutes; and
 - (B) All other engines: 15 minutes.
 - (iii) The 10% and 40% opacity limits do not apply while maintenance, repair, or testing is being performed by qualified mechanics.
- (i) COMAR 26.11.09.07A(2), which limits the sulfur content of distillate fuel oils to not more than 0.3 percent by weight.
- (3) This source is subject to all applicable State-only enforceable air pollution control requirements including, but not limited to, the following regulations:
- (a) COMAR 26.11.02.13A(16), which requires that the Permittee maintain and renew as required a valid State permit-to-operate issued by the Department.
 - (b) COMAR 26.11.02.14D, which requires that the Permittee submit to the Department not later than 60 days prior to expiration of this permit a completed application for renewal.
 - (c) COMAR 26.11.02.19C & D, which require that the Permittee submit to the Department annual certifications of emissions, and that the Permittee maintain sufficient records to support the emissions information presented in such submittals.
 - (d) COMAR 26.11.06.08 and 26.11.06.09, which generally prohibit the discharge of emissions beyond the property line in such a manner that a nuisance or air pollution is created.
 - (e) COMAR 26.11.15.05, which requires that the Permittee implement "Best Available Control Technology for Toxics" (T – BACT) to control emissions of toxic air pollutants.

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- (f) COMAR 26.11.15.06, which prohibits the discharge of toxic air pollutants to the extent that such emissions would unreasonably endanger human health.

Part C – Operating and Monitoring Conditions

- (1) The Permittee shall maintain and operate all installations and associated air pollution control equipment so as to assure full and continuous compliance with all applicable air pollution control regulations and permit conditions.
- (2) The Permittee shall properly maintain, calibrate, and operate all control panel instrumentation and all devices employed to monitor performance of the facility's air pollution control devices.
- (3) The Permittee shall notify the Department and obtain all required air quality permits prior to installing and operating any new equipment not listed in Part E of this permit.
- (4) The Permittee shall use dust collection systems to control particulate matter emissions from equipment associated with the crushing and screening plant, as specified in Part E of this permit. The exhaust gases from the equipment shall vent through the dust collection systems prior to discharging to the atmosphere to comply with the visible emissions and particulate matter requirements of COMAR 26.11.06.02C(2) and .03B(1) and the following particulate matter and opacity limits for nonmetallic mineral processing plants equipped with capture systems constructed before April 22, 2008 specified in 40 CFR, Part 60, Subpart 000:
- (a) No more than 0.022 gr/dscf from the baghouse stack; and
- (b) No more than 7 percent opacity from the baghouse stack.
[Reference: 40 CFR §60.672(a) and Table 2 to 40 CFR 60 Subpart 000]
- (5) The Permittee shall use wet suppression systems as necessary to comply with the particulate matter handling requirements of COMAR 26.11.06.03C and C and the following opacity limits specified in 40 CFR, Part 60, Subpart 000:
- (a) For affected facilities at nonmetallic mineral processing plants constructed before April 22, 2008:
- (i) No more than 15 percent opacity from crushers not vented to a dust collection system; and

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- (ii) No more than 10 percent opacity from all other fugitive sources.
- (b) For the hopper and conveyor installed in 2011 (affected facilities at nonmetallic mineral processing plants constructed, modified, or reconstructed on or after April 22, 2008): No more than 7 percent opacity.
[Reference: 40 CFR §60.672(b) and Table 3 to 40 CFR 60 Subpart OOO]
- (6) For wet suppression systems associated with the hopper and conveyor installed in 2011, the Permittee shall perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression systems. The Permittee must initiate corrective action within 24 hours and complete corrective action as expediently as practical if the Permittee finds that water is not flowing properly during an inspection of the water spray nozzles. **[Reference: 40 CFR §60.674(b)]**
- (7) Fugitive dust from plant roads and stockpiles shall be controlled, as necessary, by using water or approved chemical dust suppressants or a combination, thereof.
- (8) The Permittee shall operate only one (1) portable screening plant on site at any one time.
- (9) The Permittee shall process only dirty shot rock in the portable screening plants with a sufficient moisture content to comply with the particulate matter handling requirements of COMAR 26.11.06.03C and D unless the Permittee obtains an approval from the Department to process other materials.
- (10) The engines associated with the portable screening plants shall be nonroad engines, as defined in 40 CFR §1068.30, unless the Permittee complies with the stationary engine requirements of 40 CFR 60, Subpart IIII and 40 CFR 63, Subpart ZZZZ, as applicable, for each engine.

Part D – Record Keeping and Reporting

- (1) The Permittee shall maintain for at least five (5) years, and shall make available to the Department upon request, records of the following information:
 - (a) The types and amounts of material processed each month in the stone crushing and screening plant (ARA Registration No. 027-0489-6-0371);

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- (b) The types and amounts of material processed in each portable screening plant in tons per month (ARA Registration Nos. 027-0489-6-0459, 6-0462, 6-0463);
 - (c) The number of hours that the stone crushing and screening plant operates each day (ARA Registration No. 027-0489-6-0371);
 - (d) The dates and hours of operation for each portable screening plant (ARA Registration Nos. 027-0489-6-0459, 6-0462, 6-0463);
 - (e) The amount of diesel fuel burned monthly in each engine associated with the 400 tph and the 660 tph portable screening plants (ARA Registration Nos. 027-0489-6-0459 and 6-0463);
 - (f) Records of all equipment located at the site, including a description of the equipment, the rated capacity, and the installation date;
 - (g) Records of all maintenance performed on the dust collection systems baghouses;
 - (h) All opacity observation test results; and
 - (i) For the wet suppression systems associated with the hopper and conveyor installed in 2011, a log of each periodic inspection of the wet suppression system including dates and any corrective actions taken.
- (2) The Permittee shall maintain at the facility for at least five (5) years records necessary to support annual certifications of emissions and demonstrations of compliance for toxic air pollutants. Such records shall include, if applicable, the following:
- (a) mass emissions rates for each regulated pollutant, and the total mass emissions rate for all regulated pollutants for each registered source of emissions;
 - (b) accounts of the methods and assumptions used to quantify emissions;
 - (c) all operating data, including operating schedules and production data, that were used in determinations of emissions;
 - (d) amounts, types, and analyses of all fuels used;

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- (e) any records, the maintenance of which is required by this permit or by State or federal regulations, that pertain to the operation and maintenance of continuous emissions monitors, including:
 - (i) all emissions data generated by such monitors;
 - (ii) all monitor calibration data;
 - (iii) information regarding the percentage of time each monitor was available for proper service; and
 - (iv) information concerning any equipment malfunctions.
 - (f) information concerning operation, maintenance, and performance of air pollution control equipment and compliance monitoring equipment, including:
 - (i) identifications and descriptions of all such equipment;
 - (ii) operating schedules for each item of such equipment;
 - (iii) accounts of any significant maintenance performed;
 - (iv) accounts of all malfunctions and outages; and
 - (v) accounts of any episodes of reduced efficiency.
 - (g) limitations on source operation or any work practice standards that significantly affect emissions; and
 - (h) other relevant information as required by the Department.
- (3) The Permittee shall submit to the Department by April 1 of each year during the term of this permit a certification of emissions for the previous calendar year. The certifications shall be prepared in accordance with requirements, as applicable, adopted under COMAR 26.11.01.05 – 1 and COMAR 26.11.02.19D.
- (a) Certifications of emissions shall be submitted on forms obtained from the Department.
 - (b) A certification of emissions shall include mass emissions rates for each regulated pollutant, and the total mass emissions rate for all regulated pollutants for each of the Permittee's registered sources of emissions.

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- (c) The person responsible for a certification of emissions shall certify the submittal to the Department in the following manner:

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

- (4) The Permittee shall submit to the Department, by April 1 of each year during the term of this permit, a written certification of the results of an analysis of emissions of toxic air pollutants from the Permittee’s facility during the previous calendar year. Such analysis shall include either:
- (a) a statement that previously submitted compliance demonstrations for emissions of toxic air pollutants remain valid; or
 - (b) a revised compliance demonstration, developed in accordance with requirements included under COMAR 26.11.15 & 16, that accounts for changes in operations, analytical methods, emissions determinations, or other factors that have invalidated previous demonstrations.
- (5) The Permittee shall report, in accordance with requirements under COMAR 26.11.01.07, occurrences of excess emissions to the Compliance Program of the Air and Radiation Administration.

Part E Equipment List for the 1,200 Ton Per Hour Stone Crushing and Screening Plant – (ARA Registration No. 027-0489-6-0371)

Equipment ID No.	Description
1	One (1) 54" x 26" Deister vibrating grizzly feeder
2	One (1) 50" x 62" Lippmann jaw crusher
3	One (1) 54" x 26" Deister vibrating grizzly feeder
4	One (1) 50" x 62" Lippman jaw crusher
7	One (1) 54" x 60' belt conveyor #1A
8	One (1) 54" x 30' belt conveyor #2A
10	One (1) 54" x 350' belt conveyor #3A

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13	One (1) 54" x 30' belt conveyor #1
14	One (1) 54" x 156' belt conveyor #2
15	One (1) 54" x 169' belt conveyor #3
16	One (1) S6800 Sandvik cone crusher
17	One (1) 54" x 757' stacking conveyor #4
18	One (1) 54" x 1417' stacking conveyor #5
19	One (1) 54" x 441' belt conveyor #6
20	One (1) 54" x 150' radial stacking conveyor #7
22	Four (4) FMC MF-400 42" x 78" electromechanical feeders
22A	One (1) 13' diameter x 300' surge pile reclaim tunnel
23	Three (3) FMC MF-200 42" x 78" electromechanical feeders
24	One (1) 54" x 685' belt conveyor #8
25	One (1) 54" x 1,108' belt conveyor #12
26*	One (1) 8' x 20' Deister triple deck inclined scalping screen
27*	One (1) 36" x 21' reversing belt conveyor #13
28	One (1) 36" x 159' belt conveyor #14
29	One (1) 6' x 16' Deister double deck high speed inclined scalping screen
30	One (1) 36" x 50' belt conveyor #15
31	One (1) 36" x 120' radial stacking conveyor #16
32*	One (1) 36" x 155' belt conveyor #17
33	One (1) 36" x 115' belt conveyor #18
34	One (1) 36" x 120' radial stacking conveyor #19
35*	One (1) 36" x 169' belt conveyor #20
36*	One (1) 48" x 229' belt conveyor #21
37*	One (1) 10' x 24' 100 ton surge bin
38	Two (2) FMC MF-200 48" x 96" electromechanical feeders
39*	One (1) S6800 Sandvik cone crusher
40*	One (1) H-6800 Sandvik cone crusher
41*	One (1) 54" x 119' belt conveyor #22
42*	One (1) 54" x 162' belt conveyor #23
43*	One (1) 10' x 40' 100 ton surge bin
44	Four (4) FMC MF-200 42" x 78" electromechanical feeders
45**	One (1) 48" x 197' belt conveyor #24
46**	One (1) 48" x 197' belt conveyor #25
47**	One (1) 48" x 197' belt conveyor #26
48**	One (1) 48" x 197' belt conveyor #27
49**	One (1) 8' x 20' Deister four-deck inclined finishing screen
50**	One (1) 8' x 20' Deister four-deck inclined finishing screen
51**	One (1) 8' x 20' Deister four-deck inclined finishing screen
52**	One (1) 8' x 20' Deister four-deck inclined finishing screen
53**	One (1) 48" x 131' belt conveyor #28
54*	One (1) 48" x 306' belt conveyor #29

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55*	One (1) 10' x 36' 100 ton surge bin
56	Three (3) FMC MF-200 48" x 96" electromechanical feeders
57*	One (1) H-6800 Sandvik cone crusher
58*	One (1) H-6800 Sandvik cone crusher
59*	One (1) H-6800 Sandvik cone crusher
59A	One (1) H-6800 Sandvik cone crusher
60**	One (1) 36" x 131' belt conveyor #30
61	One (1) FMC F-440 36" x 54" electromechanical feeder
62	One (1) 36" x 207' belt conveyor #31
63	One (1) 7' x 16' Deister double deck horizontal rinse screen
64	One (1) 36" x 160' belt conveyor #32
65	One (1) 36" x 120' radial stacking conveyor #33
66	One (1) 36" x 344' belt conveyor #34
67	One (1) 7' x 16' Deister double deck horizontal rinse screen
68	One (1) 36" x 160' belt conveyor #35
69	One (1) 36" x 120' radial stacking conveyor #36
70**	One (1) 36" x 293' belt conveyor #37
71	One (1) 7' x 16' Deister double deck horizontal rinse screen
72	One (1) 36" x 75' belt conveyor #38
73	One (1) 36" x 120' radial stacking conveyor #39
74**	One (1) 36" x 101' belt conveyor #40
75	One (1) 36" x 295' belt conveyor #41
76	One (1) 36" x 120' radial stacking conveyor #42
82	One (1) 12' x 33' 125 ton fines silo with vent and collector
83	One (1) 9" diameter x 10' wetting screw
84	One (1) 24" diameter x 12' SSI wetting mill
85	One (1) smooth pneumatic conveying/loadout system
86	One (1) 12' x 12' refeed hopper
87	One (1) 30" x 30' belt conveyor #43
88	One (1) 48" x 210' belt conveyor #21A, installed in 2016
89	One (1) 48" x 120' belt conveyor #19A, installed in 2016
90	One (1) 36" x 160' belt conveyor #21B, installed in 2016
91	One (1) 36" x 120' belt conveyor #21C, installed in 2016

All equipment installed in 2006, unless otherwise noted.

*Equipment venting to Dust Collector #1 (Equipment ID No. 79)

**Equipment venting to Dust Collector #2 (Equipment ID No. 80)

