PRECONSTRUCTION ANALYSIS
FOR
CREEKWOOD RESOURCES, LLC
206-0051
UNIT X001

CreekWood Resources, LLC, (CWR) of Florence, AL, has applied to the ADEM - Air Division for an Air Permit which would authorize the construction and operation of a granite crushing, screening, and conveying circuit at the Shady Grove Quarry located in Lee County. CWR is applying for an Air Permit for the following circuit:

X001 – 300 TPH Crushing, Screening, and Conveying Circuit with Wet Suppression: Includes Sand Washing Circuit (NSPS-OOO)

X001 Process Description:

Aggregate material would be fed, by wheel loader, into the crushing, screening, and conveying circuit for processing. Processed material would then be conveyed to stockpiles or a wash screen for further processing. (See flow diagram in the application)

All equipment associated with this circuit was manufactured on or after April 22, 2008. 40 CFR Part 60, Subpart OOO NSPS limits visible emissions from uncontrolled crushers to 12% opacity and limits visible emissions from grinding mills, screening operations, bucket elevators, belt conveyors, bagging operations, storage bins, and enclosed truck or railcar loading stations, or from any other affected facility to 7% opacity. Wet processes are exempt from regulation by this subpart. In addition to the opacity requirements, there are periodic monitoring and testing requirements, as well as recordkeeping requirements to remain in compliance with NSPS Subpart OOO, as promulgated on April 28, 2009. Monthly inspections are required for all spray nozzles in wet suppression areas and for areas controlled by carry over moisture from upstream wet suppression. If inspections of the upstream spray nozzles are not conducted, the carry over areas will be subject to the five year interval retest requirement. All areas not controlled by wet suppression or carry over shall be required to retest every five years. Records of all periodic monitoring inspections, dates, results, and any corrective action taken shall be kept at the facility site, available for inspection.

CWR, will be required to conduct an EPA Method 9 visible emissions observation on the NSPS equipment associated with this circuit. Any equipment exempt from NSPS is subject to the State Implementation Plan (SIP).

Process X001

Manufacturer	*Type*	*Maximum Operating Capacity*	*Manufacturer's Date*	*NSPS/SIP*	*Testing?*
Cedarapids	Dump Hopper DH-1	300 TPH	2018	SIP	No
Cedarapids	Vibrating Grizzly Feeder F-1	300 TPH	2018	SIP	No
Cedarapids	Primary Crusher	300 TPH	2018	NSPS	Yes

	CR-1				
Cedarapids	Conveyor C-1	300 TPH	2018	NSPS	Yes
Unbranded	Conveyor C-2	300 TPH	2015	NSPS	Yes
Unbranded	Conveyor C-3	100 TPH	2015	NSPS	Yes
Unbranded	Conveyor C-4	150 TPH	2015	NSPS	Yes
Unbranded	Conveyor C-5	300 TPH	2015	NSPS	Yes
Unbranded	Dump Hopper DH-2	300 TPH	2015	NSPS	Yes
Cedarapids	Secondary Crusher CR-2	300 TPH	2013	NSPS	Yes
Unbranded	Conveyor C-6	100 TPH	2012	NSPS	Yes
Unbranded	Conveyor C-7	100 TPH	2015	NSPS	Yes
Unbranded	Conveyor C-8	100 TPH	2012	NSPS	Yes
Unbranded	Conveyor C-9	100 TPH	2015	NSPS	Yes
Unbranded	Conveyor C-10	100 TPH	2015	NSPS	Yes
Unbranded	Conveyor C-11	150 TPH	2015	NSPS	Yes
Unbranded	Conveyor C-12	50 TPH	2017	NSPS	Yes
Deister	Triple Deck Screen SCR-1	300 TPH	2008	NSPS	Yes
Cedarapids	Triple Deck Screen SCR-2	300 TPH	2017	NSPS	Yes
Simplicity	Triple Deck Screen SCR-3	300 TPH	2017	NSPS	Yes
Simplicity	Wash Sand Screw	50 TPH	2017	SIP	No

The expected fugitive emissions rate for this circuit would be **4.42 TPY**. There is no allowable emissions rate for fugitive or dust emissions. Therefore, the uncontrolled, controlled, and expected emission rate calculations for this circuit can be found in Appendix A. Note: these calculations are furnished as public information and used to demonstrate the effectiveness of the wet suppression systems based on emissions factors taken from an EPA approved source of emission factors. By definition, fugitive emissions from this process would not be considered in determining Prevention of Significant Deterioration (PSD) or Title V applicability.

This facility is not located within 100 km of the Sipsey Class I Wilderness. The construction and operation of this plant is not anticipated to significantly impact this area.

This facility would not be considered "major" for any criteria pollutant and, therefore, is not required to undergo the PSD process. This site would be considered a Greenfield and CWR would be required to complete a 30-day public comment period, a joint public notice with the Water Division. The Shady Grove Quarry will be located near Opelika, Lee County.

Based on this information, this analysis indicates that this source would meet the requirements of all ADEM - Air Division rules and regulations. I recommend that an Air Permit be issued to CWR incorporating the provisions of Appendix B and Appendix C, the cover letter.

Shane Jordan
Energy Branch
Air Division
April 12, 2021

Appendix A

CALCULATIONS

FOR

CREEKWOOD RESOURCES, LLC 206-0051

UNIT X001

X001- 300 TPH Crushing, Screening, and Conveying Circuit with Wet Suppression: Includes Sand Washing Circuit (NSPS-OOO).

Equipment: 2 Crushers, 3 Screens, and 15 Associated Belt Conveyors (including 1 Feeder and 2 Dump Hoppers)

Hours of Operation: 10 hrs/day x 5 days/wk x 52 wks/yr = 2600 hours /year

Pollution Control: Wet Suppression

Allowable Emission: There is no allowable particulate emission rate limiting fugitive emissions for any of these processes.

Uncontrolled Emissions: Emission factors taken from EPA AP-42, Table 11.19.2-2

Source			Uncontrolled		Controlled	
		Units	Total PM	PM-10	Total PM	PM-10
Crushing Emission Factor		**lb/Ton**	**0.0054**	**0.0024**	**0.0012**	**0.00054**
Crushing	**300**	**TPH**				
Total (# TPH * EF# lb/Ton)		lb/hr	1.62	0.72	0.36	0.162
	8760	hrs/yr				
Total (#lb/hr*#hrs/yr*(1/2000)Ton/lbs)		TPY	7.0956	3.1536	1.5768	0.70956
	2600	hrs/yr				

Expected (#lb/hr*exp#hrs/yr*(1/2000)Ton/lbs)		TPY	2.106	0.936	0.468	0.2106
Screening Emission Factor		**lb/Ton**	**0.025**	**0.0087**	**0.0022**	**0.00074**
TD Screen	**300**	**TPH**				
Total (# TPH * EF# lb/Ton)		lb/hr	7.5	2.61	0.66	0.222
	8760	hrs/yr				
Total (#lb/hr*#hrs/yr*1/2000Ton/lbs)		TPY	32.85	11.4318	2.8908	0.97236
	2600	hrs/yr				
Expected (#lb/hr*exp#hrs/yr*1/2000Ton/lbs)		TPY	9.75	3.393	0.858	0.2886
Conveying/ Transfer Point Emission Factor		**lb/Ton**	**0.003**	**0.0011**	**0.00014**	**0.000046**
Conveyors Shop Built	**300**	**TPH**				
Total (# TPH * EF# lb/Ton)		lb/hr	0.9	0.33	0.042	0.0138
	8760	hrs/yr				
Total (#lb/hr*#hrs/yr*1/2000Ton/lbs)		TPY	3.942	1.4454	0.18396	0.060444
	2600	hrs/yr				
Expected (#lb/hr*exp#hrs/yr*1/2000Ton/lbs)		TPY	1.17	0.429	0.0546	0.01794
Total Expected		**TPY**	**13.026**	**4.758**	**1.3806**	**0.51714**

Total Uncontrolled Emissions:

Crushing	7.1 TPH x 2 crushers = 14.2 TPH
Screening	32.9 TPH x 3 Screens = 98.7 TPH
Conveying	3.9 TPH x 15 Conveyors = 58.5 TPH
Total	171.4 TPY at 8760 hrs/yr

Total Controlled Emissions:

Crushing	1.58 TPH x 2 crushers = 3.16 TPH
Screening	2.89 TPH x 3 Screens = 8.67 TPH
Conveying	0.18 TPH x 15 Conveyors = 2.70 TPH
Total	14.53 TPY at 8760 hrs/yr

Expected Emissions: Based on 2600 Actual Hours of Operation and the AP-42 total particulate controlled emission factor.

Crushing	0.47 TPH x 2 crushers = 0.94 TPH
Screening	0.86 TPH x 3 Screens = 2.58 TPH
Conveying	0.06 TPH x 15 Conveyors = 0.90 TPH
Total	4.42 TPY at 2600 hrs/yr

Appendix B

CreekWood Resources, LLC
Lee County, Alabama
Permit No. 206-0051-X001
Provisos

1. This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.

2. This permit is not transferable. Upon sale or legal transfer, the new owner or operator must apply for a permit within 30 days.

3. A new permit application must be made for new sources, replacements, alterations or design changes which may result in the issuance of, or an increase in the issuance of, air contaminants, or the use of which may eliminate or reduce or control the issuance of air contaminants.

4. All air pollution control equipment shall be operated at all times while this process is operational. In the event of scheduled maintenance, unscheduled maintenance, or a breakdown of the pollution control equipment, the process shall be shutdown as expeditiously as possible (unless this act and subsequent re-start would clearly cause greater emissions than continuing operations of the process for a short period). The Department shall be notified of all such events **that exceed 1 hour** within 24 hours. The notification shall include all pertinent facts, including the duration of the process operating without the control device and the level of excess emissions which have occurred. Records of all such events, regardless of reporting requirements, shall be made and maintained for a period of five years. These records shall be available for inspection.

5. This process, including all air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.

6. This permit expires and the application is cancelled if construction has not begun within 24 months of the date of issuance of the permit.

7. On completion of construction of the device(s) for which this permit is issued, written notification of the fact is to be submitted to the Chief of the Air Division. The notification shall indicate whether the device(s) was constructed as proposed in the application. The device(s) shall not be operated until authorization to operate is granted by the Chief of the Air Division. Failure to notify the Chief of the Air Division of completion of construction and/or operation without authorization could result in revocation of this permit.

8. Prior to a date to be specified by the Chief of the Air Division in the authorization to operate, emission tests are to be conducted by persons familiar with and using the EPA Sampling Train and Test Procedure as described in the Code of Federal Regulations, Title 40, Part 60, for the following pollutants. Written tests results are to be reported to the Air Division within 15 working days of completion of testing.

Particulates ( )	Carbon Monoxide ( )
Sulfur Dioxide ( )	Nitrogen Oxides ( )
Volatile Organic Compounds ( )	Visible Emissions (X)

9. Submittal of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require stack emission testing at any time.

10. Additions and revisions to the conditions of this Permit will be made, if necessary, to ensure that the Department's air pollution control rules and regulations are not violated.

11. Nothing in this permit or conditions thereto shall negate any authority granted to the Department pursuant to the Alabama Environmental Management Act or regulations issued thereunder.

12. This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.

13. The Air Division must be notified in writing at least 10 working days in advance of all emission tests to be conducted and submitted as proof of compliance with the Department's air pollution control rules and regulations.

    To avoid problems concerning testing methods and procedures, the following shall be included with the notification letter:

    (a) The date the test crew is expected to arrive, the date and time anticipated of the start of the first run, how many and which sources are to be tested, and the names of the persons and/or testing company that will conduct the tests.

    (b) A complete description of each sampling train to be used, including type of media used in determining gas stream components, type of probe lining, type of filter media, and probe cleaning method and solvent to be used (if test procedure requires probe cleaning).

(c) A description of the process(es) to be tested, including the feed rate, any operating parameter used to control or influence the operations, and the rated capacity.

(d) A sketch or sketches showing sampling point locations and their relative positions to the nearest upstream and downstream gas flow disturbances.

A pretest meeting may be held at the request of the source owner or the Department. The necessity for such a meeting and the required attendees will be determined on a case-by-case basis. All test reports must be submitted to the Air Division within 15 days of the actual completion of the test, unless an extension of time is specifically approved by the Air Division.

14. Precautions to prevent fugitive dust shall be taken so that provisions of the Department's rules and regulations shall not be violated.

15. Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc.

Plant or haul roads and grounds shall be maintained in the following manner so that dust will not become airborne. A minimum of one, or a combination, of the following methods shall be utilized to minimize airborne dust from plant or haul roads and grounds:

(a) by the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic;

(b) by reducing the speed of vehicular traffic to a point below that at which dust emissions are created;

(c) by paving;

(d) by the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions;

Should one, or a combination, of the above methods fail to adequately reduce airborne dust from plant or haul roads and grounds, alternative methods shall be employed, either exclusively or in combination with one or all of the above control techniques, so that dust will not become airborne. Alternative methods shall be approved by the Department prior to utilization.

16. If this plant relocates to another site, this plant's Air Permit remains valid for this site unless or until it is revoked for failure to comply with ADEM Air Division Rules and Regulations. The owner or operator of this plant must provide written notification of the intent to relocate the plant to this site at least two weeks in advance. The written notification should include

the planned construction beginning date and the projected startup date. Failure to provide this written notification is a violation of this permit condition and is grounds for revocation of this permit.

17. Any performance tests required shall be conducted and data reduced in accordance with the test methods and procedures contained in each specific permit condition unless the Director (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, or (3) approves the use of an alternative method, the results of which he has determined to be adequate for indicating whether a specific source is in compliance.

18. All equipment associated with this process is subject to the State Implementation Plan (SIP) or the New Source Performance Standards (40 CFR 60, Subpart OOO - Standards of Performance for Nonmetallic Mineral Processing Plants, applicability date, April 22, 2008). This NSPS limits visible emissions from crushers to 12% opacity and visible emissions from grinding mills, screening operations, bucket elevators, belt conveyors, bagging operations, storage bins and enclosed truck and railcar loading stations, or from any other affected facility to 7% opacity. This NSPS exempts wet operations from regulation.

19. Compliance with the opacity standards for sources subject to NSPS-Subpart OOO will be determined by conducting visible emission observations in accordance with the most recent version of EPA Reference Method 9 of Appendix A-4 of the CFR, Title 40, Part 60. When determining compliance with the fugitive emissions standard for grinding mills, screening operations, bucket elevators, belt conveyors, bagging operations, storage bins and enclosed truck and railcar loading stations or from any other affected facility of this circuit, the duration of the Method 9 observations are required to be 30 minutes or five six minute averages. No more than 3 points may be tested concurrently by the same observer. The specified criteria of NSPS - Subpart OOO must be met.

    The observations will be made by an observer currently certified to make EPA Method 9 visible emission observations. The opacity observations will be conducted within 60 days of the source achieving maximum production rate but no later than 180 days of initial start-up of the facility. The visible observation report will be submitted to the Department within 15 days of taking the observations

20. The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.

21. The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.

22. Precautions shall be taken by the permittee and its personnel to ensure that no person shall ignite, cause to be ignited, permit to be ignited, or maintain any open fire in such a manner as to cause the Department's rules and regulations applicable to open burning to be violated.

23. Periodic monitoring is required for all affected facilities controlled by direct wet suppression and/or water carryover. Each spray nozzle shall be examined monthly to assure water is appropriately supplied to the nozzle and that the water is sprayed from the nozzle correctly. Any corrective action indicated shall be taken within 24 hours of the inspection and completed as expediently as possible.

24. The permittee shall keep this permit under file or on display at all times at the site where the facility for which the permit is issued is located and shall make the permit readily available for inspection by any or all persons who may request to see it.

25. Should this facility, at any time, exceed the limits set forth in this permit, this Department must be notified within ten (10) days of the exceedance.

26. Recordkeeping is required for all monthly periodic monitoring inspections. Records shall be kept on the facility site, either in a handwritten log book or in electronic version suitable for inspection upon request by Air Division inspectors and will be retained for at least five (5) years following the date of the inspection. Records of the inspection date, results, and any corrective action taken shall be recorded. In addition, if wet suppression is not utilized during the inspection, any other control method used should be recorded or circumstances shall be noted.

Date
Date

Appendix C

date

Mr. Jeffrey Major
CreekWood Resources, LLC
2701 Mall Dr, Suite 7-102
Florence, AL 35630

Dear Mr. Major:

RE: Facility No. 206-0051
Unit X001

The enclosed Air Permit is issued pursuant to the Department's air pollution control rules and regulations. Please note the conditions (provisions) which must be met in order to retain this Air Permit.

New sources of air pollution receiving approval by an Air Permit must notify the Chief of the Air Division upon completion of construction and prior to operation. Authorization to Operate must then be received from the Chief of the Air Division. Failure to notify the Chief of the Air Division upon completion of construction and/or operation without authorization can result in the revocation of the Air Permit.

Upon receiving the enclosed Air Permit, please review **all** of the provisions.

Should you have any questions or if clarification of permit conditions is required, please do not hesitate to contact Shane Jordan at (334) 274-4228 in Montgomery.

Sincerely,

Ronald W. Gore, Chief
Air Division

RWG/SDJ

Enclosures

ADEM
Alabama Department of Environmental Management

AIR PERMIT

PERMITTEE: CREEKWOOD RESOURCES, LLC

FACILITY NAME: SHADY GROVE QUARRY

LOCATION: LEE COUNTY, ALABAMA

PERMIT NUMBER	DESCRIPTION OF EQUIPMENT, ARTICLE OR DEVICE
206-0051-X001	300 TPH Crushing, Screening, and Conveying Circuit with Wet Suppression: Includes Sand Washing Circuit (NSPS-OOO)

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, Ala. Code §§ 22-28-1 to 22-28-23, as amended, the Alabama Environmental Management Act, Ala. Code §§ 22-22A-1 to 22-22A-17, as amended, and rules and regulations adopted there under, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

ISSUANCE DATE: Date

Alabama Department of Environmental Management

CreekWood Resources, LLC

2701 Mall Drive, Suite 7-102 Florence, Alabama 35630
270.484.0830 creekwoodresources@gmail.com

December 4, 2020

Mr. Shane Jordon
Alabama Department for Environmental Management
Air Division, Construction Materials Section
1400 Coliseum Blvd.
Montgomery, AL 36110

Re: CreekWood Resources, LLC
Proposed Granite Quarry and Processing Facility Air Permit Application
Lee County, Alabama

Dear Mr. Jordon:

Please find enclosed the following items included in the application package for the proposed CreekWood Resources Granite Quarry in Lee County, Alabama:

Site Location Map
Form 103 - 1
Form 105 - 22
Form 110 - 1
Proposed Processing Equipment Listing
Proposed Plant Flow Diagram
Emission Computations
Site Map

The proposed granite quarry is located northeast of the City of Opelika, outside the city limits, on Highway 29 North. The proposed crushing plant has a maximum capacity of 936,000 tons per year, and we project a realistic maximum annual throughput of 750,000 tons per year or 80% of maximum capacity. All dust control will be through the use of wet suppression.

Should you have any questions or require additional information, do not hesitate to contact me at either creekwoodresources@gmail.com or 270-484-0830.

Sincerely,
CreekWood Resources, LLC

Jeffrey D. Major
Managing Member

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (AIR DIVISION)

Do not Write in This Space

Facility Number 206 - 0051

CONSTRUCTION/OPERATING PERMIT APPLICATION
FACILITY IDENTIFICATION FORM

1. **Name of Facility, Firm, or Institution:** CreekWood Resources, LLC

Facility Physical Location Address

Street & Number: 5304 US Highway 29 North

City: Opelika **County:** Lee **Zip:** 36801

Facility Mailing Address (If different from above)

Address or PO Box: 2701 Mall Drive, Suite 7-102

City: Florence **State:** AL **Zip:** 35630

Owner's Business Mailing Address

2. **Owner:** Creekwood Resources, LLC

Street & Number: 2701 Mall Drive, Suite 7-102 **City:** Florence

State: AL **Zip:** 35630 **Telephone:** 270-484-0830

Responsible Official's Business Mailing Address

3. **Responsible Official:** Jeffrey Major **Title:** Managing Member

Street & Number: 2701 Mall Drive, Suite 7-102

City: Florence **State:** AL **Zip:** 35630

Telephone Number: 270-484-0830 **E-mail Address:** creekwoodresources@gmail.com

Plant Contact Information

4. **Plant Contact:** Jeffrey Major **Title:** Managing Member

Telephone Number: 270-484-0830 **E-mail Address:** creekwoodresources@gmail.com

5. **Location Coordinates:**

UTM 660999.36 Zone 16S **E-W** 3619135.36 Zone 16S **N-S**

Latitude/Longitude 32.698212 **LAT** -85.282462 **LONG**

6. **Permit application is made for:**

- [ ] Existing source (initial application)
- [ ] Modification
- [x] New source (to be constructed)
- [ ] Change of ownership
- [ ] Change of location
- [ ] Other (specify) _____

Existing source (permit renewal)

If application is being made to construct or modify, please provide the name and address of installer or contractor

Independence Excavating, Inc. 5720 E Schaaf Road Independence, OH 44131

also see indexc.com

_____ **Telephone** 800-524-3478

Date construction/modification to begin Summer 2021 **to be completed** Fall 2021

7. **Permit application is being made to obtain the following type permit:**

- [x] Air permit
- [ ] Major source operating permit
- [ ] Synthetic minor source operating permit
- [ ] General permit

8. **Indicate the number of each of the following forms attached and made a part of this application: (if a form does not apply to your operation indicate "N/A" in the space opposite the form). Multiple forms may be used as required.**

n/a	ADEM 104 - INDIRECT HEATING EQUIPMENT
21	ADEM 105 - MANUFACTURING OR PROCESSING OPERATION
n/a	ADEM 106 - REFUSE HANDLING, DISPOSAL, AND INCINERATION
n/a	ADEM 107 - STATIONARY INTERNAL COMBUSTION ENGINES
n/a	ADEM 108 - LOADING, STORAGE & DISPENSING LIQUID & GASEOUS ORGANIC COMPOUNDS
n/a	ADEM 109 - VOLATILE ORGANIC COMPOUND SURFACE COATING EMISSION SOURCES
1	ADEM 110 - AIR POLLUTION CONTROL DEVICE
n/a	ADEM 112 - SOLVENT METAL CLEANING
n/a	ADEM 438 - CONTINUOUS EMISSION MONITORS
n/a	ADEM 437 - COMPLIANCE SCHEDULE

9. **General nature of business: (describe and list appropriate standard industrial classification (SIC) and North American Industry Classification System (NAICS) (www.naics.com) code(s)):**

SIC 1423, NAICS 212313, Granite quarry. Crushed, Screen and stockpile granite for construction aggregate.

10. **For those making application for a synthetic minor or major source operating permit, please summarize each pollutant emitted and the emission rate for the pollutant. Indicate those pollutants for which the facility is major.**

Regulated pollutant	Potential Emissions* (tons/year)	Major source? yes/no
n/a		

*Potential emissions are either the maximum allowed by the regulations or by permit, or, if there is no regulatory limit, it is the emissions that occur from continuous operation at maximum capacity.

11. For those applying for a major source operating permit, indicate the compliance status by program for each emission unit or source and the method used to determine compliance. Also cite the specific applicable requirement.

Emission unit or source: n/a
(description)

Emission Point No.	Pollutant[4]	Standard	Program[1]	Method used to determine compliance	Compliance Status	
					IN[2]	OUT[3]

[1]PSD, non-attainment NSR, NSPS, NESHAP (40 CFR Part 61), NESHAP (40 CFR Part 63), accidental release (112(r)),SIP regulation, Title IV, Enhanced Monitoring, Title VI, Other (specify)

[2]Attach compliance plan

[3]Attach compliance schedule (ADEM Form-437)

[4]Fugitive emissions must be included as separate entries

12. **List all insignificant activities and the basis for listing them as such (i.e., less than the insignificant activity thresholds or on the list of insignificant activities). Attach any documentation needed, such as calculations. No unit subject to an NSPS, NESHAP or MACT standard can be listed as insignificant.**

Insignificant Activity	Basis
n/a	

13. **List and explain any exemptions from applicable requirements the facility is claiming:**

a. n/a

b.

c.

d.

e.

f.

g.

h.

i.

14. **List below other attachments that are a part of this application(all supporting engineering calculations must be appended):**

a. Cover Letter

b. Form 103

c. Form 105 (20)

d. Form 110

e. Emissions Computations

f. Proposed Crushing Plant Flow Diagram

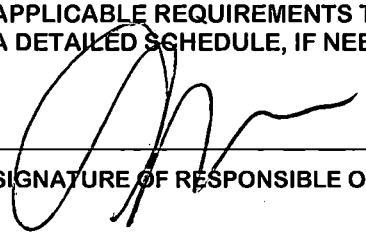
g. Equipment List

h. Site Map

i.

I CERTIFY UNDER PENALTY OF LAW THAT, BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION CONTAINED IN THIS APPLICATION ARE TRUE, ACCURATE AND COMPLETE.

I ALSO CERTIFY THAT THE SOURCE WILL CONTINUE TO COMPLY WITH APPLICABLE REQUIREMENTS FOR WHICH IT IS IN COMPLIANCE, AND THAT THE SOURCE WILL, IN A TIMELY MANNER, MEET ALL APPLICABLE REQUIREMENTS THAT WILL BECOME EFFECTIVE DURING THE PERMIT TERM AND SUBMIT A DETAILED SCHEDULE, IF NEEDED FOR MEETING THE REQUIREMENTS.



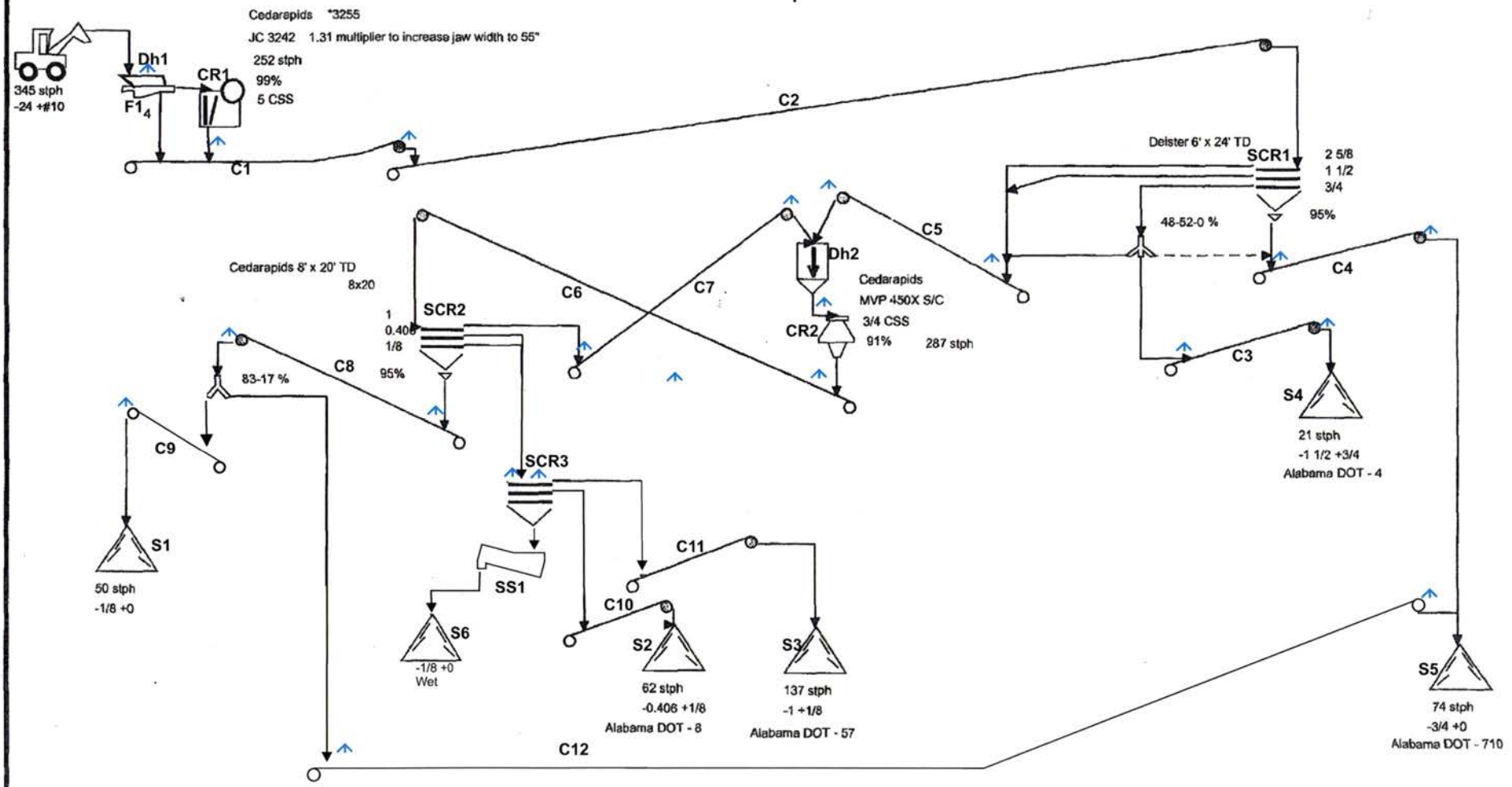
Managing Member 12/04/2020

SIGNATURE OF RESPONSIBLE OFFICIAL **TITLE** **DATE**

Creekwood Resources, LLC
Processing Plant Equipment List

Description	Form 105	Designation
48" Primary Crusher Discharge Conveyor	Yes	C-1
48"x60' Primary Feed Conveyor	Yes	C-2
36"x60' Conveyor	Yes	C-3
30" x 85' Radial Stacker Conveyor	Yes	C-4
36"x60' Surge Bin Conveyor	Yes	C-5
48"x55' Secondary Screen Feed Conveyor	Yes	C-6
36" x 60' Recirculating Coarse Product Conveyor	Yes	C-7
30" x 60' Fines Transfer Conveyor	Yes	C-8
30"x60' Fines Radial Stacking Conveyor	Yes	C-9
30"x90' Product Radial Stacker	Yes	C-10
30"x90' Product Radial Stacker	Yes	C-11
30" x 60' Fines Collecting Conveyor	Yes	C-12
Deister 6' x 24' Triple Deck Screen	Yes	SCR-1
Cedar Rapids 8'x20' 3 Deck Finishing Screen	Yes	SCR-2
Simplicity 3 Deck Wash Screen	Yes	SCR-3
Simplicity Sand Screw	Yes	SS-1
Grizzly Feeder	Yes	F-1
Primary Dump Hopper	Yes	DH-1
15 CuYd Surge Bin	Yes	DH-2
Cedarapids CRJ 3255 Jaw Crusher Primary	Yes	CR-1
Cedarapids MVP-450X Secondary Crusher	Yes	CR-2

Alabama Granite Crushing Circuit



Proposed Wet Suppression

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.

All calculations performed by AggFlow. ***http://www.AggFlow.com***

CreekWood Resources, LLC
Alabama Granite Crushing Plant

Plant Stage #1:
Project #: 84782 Revision #: 367619 Date: **December 4, 2020**

This is the tentative equipment listing for this facility.	Source Operational Data				
CreekWood Resources, LLC Granite Quarry		Hr/Day	Day/Wk	Wk/Yr	Hr/yr
Lee County, Alabama	Ave	10	6	52	3120
	Max	12	7	52	4368
Date December 4, 2020	Pot	24	7	52	8736

Name	CreekWood Resources
UTM	Zone 16 S
East	651183.1
North	3619399
Elev	759 Ft Above MSL

EMISSION FACTORS FOR CRUSHED STONE PROCESSING REFERENCE AP-42 TABLE 11.19.2-2 (LB/TON)

Source	Form 105	Designation	Throughput						AP42	
			Average		Max		Pot		PM	PM-10
			Tons/Hr	Tons/Year	Tons/Hr	Tons/Year	Tons/Hr	Tons/Year	lb/ton	lbs/Ton
48" Primary Crusher Discharge Conveyor	Yes	C-1	300	936000	300	1310400	300	2620800	0.00014	0.000046
48"x60' Primary Feed Conveyor	Yes	C-2	300	936000	300	1310400	300	2620800	0.00014	0.000046
36"x60' Conveyor	Yes	C-3	100	312000	100	436800	100	873600	0.00014	0.000046
30" x 85' Radial Stacker Conveyor	Yes	C-4	150	468000	150	655200	150	1310400	0.00014	0.000046
36"x60' Surge Bin Conveyor	Yes	C-5	300	936000	300	1310400	300	2620800	0.00014	0.000046
48"x55' Secondary Screen Feed Conveyor	Yes	C-6	300	936000	300	1310400	300	2620800	0.00014	0.000046
36" x 60' Recirculating Coarse Product Conveyor	Yes	C-7	100	312000	100	436800	100	873600	0.00014	0.000046
30" x 60' Fines Transfer Conveyor	Yes	C-8	100	312000	100	436800	100	873600	0.00014	0.000046
30"x60' Fines Radial Stacking Conveyor	Yes	C-9	100	312000	100	436800	100	873600	0.00014	0.000046
30"x90' Product Radial Stacker	Yes	C-10	100	312000	100	436800	100	873600	0.00014	0.000046
30"x90' Product Radial Stacker	Yes	C-11	150	468000	150	655200	150	1310400	0.00014	0.000046
30" x 60' Fines Collecting Conveyor	Yes	C-12	50	156000	50	218400	50	436800	0.00014	0.000046
Deister 6' x 24' Triple Deck Screen	Yes	SCR-1	300	936000	300	1310400	300	2620800	0.0022	0.00074
Cedar Rapids 8'x20' 3 Deck Finishing Screen	Yes	SCR-2	300	936000	300	1310400	300	2620800	0.0022	0.00074
Simplicity 3 Deck Wash Screen	Yes	SCR-3	300	936000	300	1310400	300	2620800	0.0000	0.0000
Simplicity Sand Screw	Yes	SS-1	50	156000	50	218400	50	436800	0.0000	0.0000
Grizzly Feeder	Yes	F-1	300	936000	300	1310400	300	2620800	0.0022	0.00074
Primary Dump Hopper	Yes	DH-1	300	936000	300	1310400	300	2620800	0.000016	0.000016
15 CuYd Surge Bin	Yes	DH-2	300	936000	300	1310400	300	2620800	0.000016	0.000016
Cedarapids CRJ 3255 Jaw Crusher Primary	Yes	CR-1	250	780000	250	1092000	250	2184000	0.0012	0.00054
Cedarapids MVP-450X Secondary Crusher	Yes	CR-2	300	936000	300	1310400	300	2620800	0.0012	0.00054

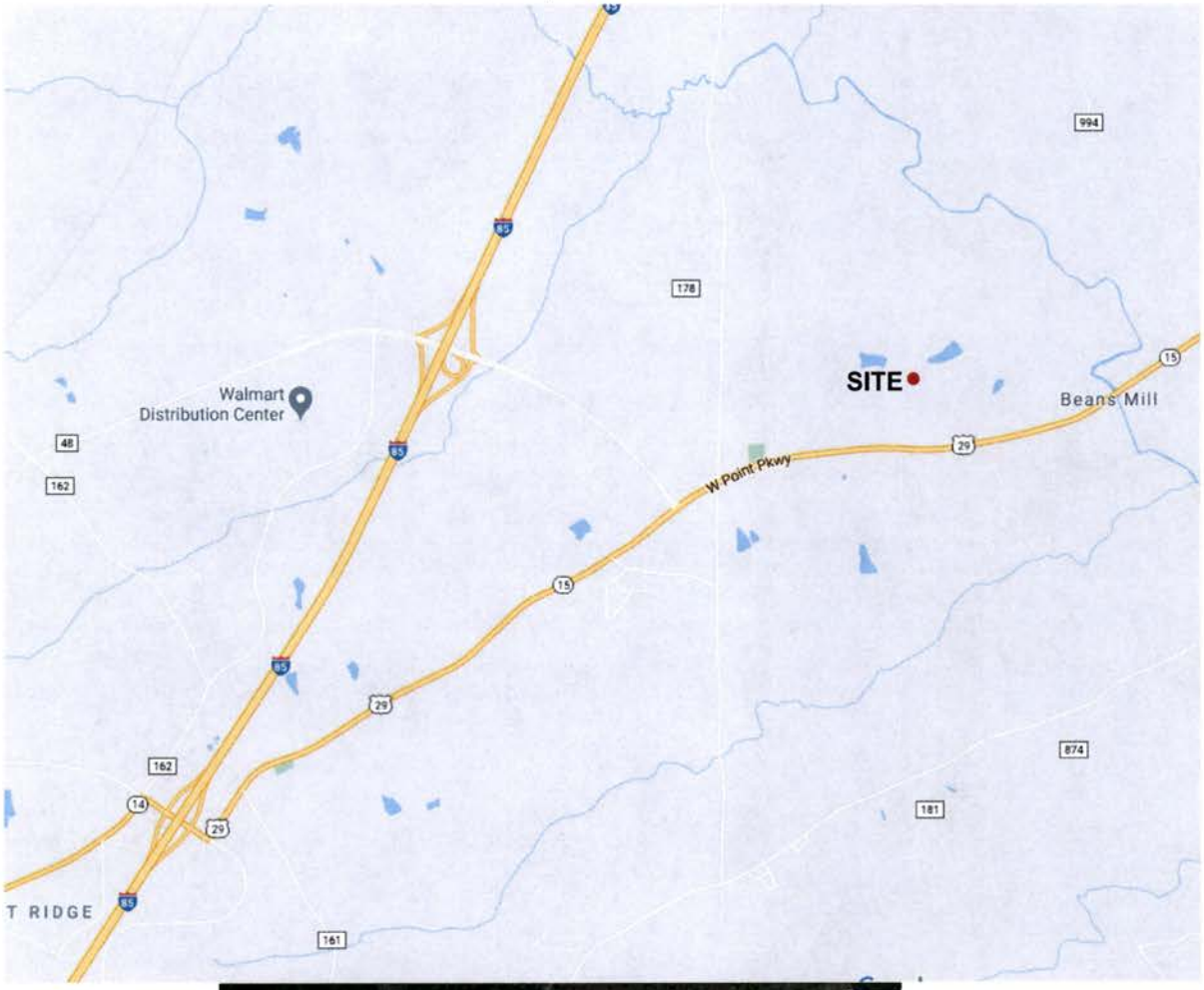
Note: Due to the absence of emission factors in the AP-42 reference table for primary and secondary crushing, the emission factor for tertiary crushing (controlled) was used for both primary and secondary crushing calculations.

Source	Designation	PM								
		Ave			Max			Pot		
		lbs/hr	lbs/Yr	Tons/Yr	lbs/hr	lbs/Yr	Tons/yr	lbs/hr	lbs/Yr	Tons/Yr
48" Primary Crusher Discharge Conveyor	C-1	0.04	131.04	0.07	0.04	183.46	0.09	0.04	366.91	0.18
48"x60' Primary Feed Conveyor	C-2	0.04	131.04	0.07	0.04	183.46	0.09	0.04	366.91	0.18
36"x60' Conveyor	C-3	0.01	43.68	0.02	0.01	61.15	0.03	0.01	122.30	0.06
30" x 85' Radial Stacker Conveyor	C-4	0.02	65.52	0.03	0.02	91.73	0.05	0.02	183.46	0.09
36"x60' Surge Bin Conveyor	C-5	0.04	131.04	0.07	0.04	183.46	0.09	0.04	366.91	0.18
48"x55' Secondary Screen Feed Conveyor	C-6	0.04	131.04	0.07	0.04	183.46	0.09	0.04	366.91	0.18
36" x 60' Recirculating Coarse Product Conveyor	C-7	0.01	43.68	0.02	0.01	61.15	0.03	0.01	122.30	0.06
30" x 60' Fines Transfer Conveyor	C-8	0.01	43.68	0.02	0.01	61.15	0.03	0.01	122.30	0.06
30"x60' Fines Radial Stacking Conveyor	C-9	0.01	43.68	0.02	0.01	61.15	0.03	0.01	122.30	0.06
30"x90' Product Radial Stacker	C-10	0.01	43.68	0.02	0.01	61.15	0.03	0.01	122.30	0.06
30"x90' Product Radial Stacker	C-11	0.02	65.52	0.03	0.02	91.73	0.05	0.02	183.46	0.09
30" x 60' Fines Collecting Conveyor	C-12	0.01	21.84	0.01	0.01	30.58	0.02	0.01	61.15	0.03
Deister 6' x 24' Triple Deck Screen	SCR-1	0.66	2059.20	1.03	0.66	2882.88	1.44	0.66	5765.76	2.88
Cedar Rapids 8'x20' 3 Deck Finishing Screen	SCR-2	0.66	2059.20	1.03	0.66	2882.88	1.44	0.66	5765.76	2.88
Simplicity 3 Deck Wash Screen	SCR-3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Simplicity Sand Screw	SS-1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grizzly Feeder	F-1	0.66	2059.20	1.03	0.66	2882.88	1.44	0.66	5765.76	2.88
Primary Dump Hopper	DH-1	0.00	14.98	0.01	0.00	20.97	0.01	0.00	41.93	0.02
15 CuYd Surge Bin	DH-2	0.00	14.98	0.01	0.00	20.97	0.01	0.00	41.93	0.02
Cedarapids CRJ 3255 Jaw Crusher Primary	CR-1	0.30	936.00	0.47	0.30	1310.40	0.66	0.30	2620.80	1.31
Cedarapids MVP-450X Secondary Crusher	CR-2	0.36	1123.20	0.56	0.36	1572.48	0.79	0.36	3144.96	1.57
	TOTALS	3	9162	**4.58**	3	12827	**6.41**	3	25654	**12.83**

Source	Designation	PM10								
		Ave			Max			Pot		
		lbs/hr	lbs/Yr	Tons/Yr	lbs/hr	lbs/Yr	Tons/Yr	lbs/hr	lbs/Yr	Tons/Yr
48" Primary Crusher Discharge Conveyor	C-1	0.01	43.06	0.02	0.01	60.28	0.03	0.01	120.56	0.06
48"x60' Primary Feed Conveyor	C-2	0.01	43.06	0.02	0.01	60.28	0.03	0.01	120.56	0.06
36"x60' Conveyor	C-3	0.00	14.35	0.01	0.00	20.09	0.01	0.00	40.19	0.02
30" x 85' Radial Stacker Conveyor	C-4	0.01	21.53	0.01	0.01	30.14	0.02	0.01	60.28	0.03
36"x60' Surge Bin Conveyor	C-5	0.01	43.06	0.02	0.01	60.28	0.03	0.01	120.56	0.06
48"x55' Secondary Screen Feed Conveyor	C-6	0.01	43.06	0.02	0.01	60.28	0.03	0.01	120.56	0.06
36" x 60' Recirculating Coarse Product Conveyor	C-7	0.00	14.35	0.01	0.00	20.09	0.01	0.00	40.19	0.02
30" x 60' Fines Transfer Conveyor	C-8	0.00	14.35	0.01	0.00	20.09	0.01	0.00	40.19	0.02
30"x60' Fines Radial Stacking Conveyor	C-9	0.00	14.35	0.01	0.00	20.09	0.01	0.00	40.19	0.02
30"x90' Product Radial Stacker	C-10	0.00	14.35	0.01	0.00	20.09	0.01	0.00	40.19	0.02
30"x90' Product Radial Stacker	C-11	0.01	21.53	0.01	0.01	30.14	0.02	0.01	60.28	0.03
30" x 60' Fines Collecting Conveyor	C-12	0.00	7.18	0.00	0.00	10.05	0.01	0.00	20.09	0.01
Deister 6' x 24' Triple Deck Screen	SCR-1	0.22	692.64	0.35	0.22	969.70	0.48	0.22	1939.39	0.97
Cedar Rapids 8'x20' 3 Deck Finishing Screen	SCR-2	0.22	692.64	0.35	0.22	969.70	0.48	0.22	1939.39	0.97
Simplicity 3 Deck Wash Screen	SCR-3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Simplicity Sand Screw	SS-1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grizzly Feeder	F-1	0.22	692.64	0.35	0.22	969.70	0.48	0.22	1939.39	0.97
Primary Dump Hopper	DH-1	0.00	14.98	0.01	0.00	20.97	0.01	0.00	41.93	0.02
15 CuYd Surge Bin	DH-2	0.00	14.98	0.01	0.00	20.97	0.01	0.00	41.93	0.02
Cedarapids CRJ 3255 Jaw Crusher Primary	CR-1	0.14	421.20	0.21	0.14	589.68	0.29	0.14	1179.36	0.59
Cedarapids MVP-450X Secondary Crusher	CR-2	0.16	505.44	0.25	0.16	707.62	0.35	0.16	1415.23	0.71
	TOTALS	1	3329	**1.66**	1	4660	**2.33**	1	9320	**4.66**

Source	Designation	PERMIT LIMITS	
		Opacity	Ave PM Tons/yr
48" Primary Crusher Discharge Conveyor	C-1	7%	0.00459
48"x60' Primary Feed Conveyor	C-2	7%	0.00459
36"x60' Conveyor	C-3	7%	0.00153
30" x 85' Radial Stacker Conveyor	C-4	7%	0.00229
36"x60' Surge Bin Conveyor	C-5	7%	0.00459
48"x55' Secondary Screen Feed Conveyor	C-6	7%	0.00459
36" x 60' Recirculating Coarse Product Conveyor	C-7	7%	0.00153
30" x 60' Fines Transfer Conveyor	C-8	7%	0.00153
30"x60' Fines Radial Stacking Conveyor	C-9	7%	0.00153
30"x90' Product Radial Stacker	C-10	7%	0.00153
30"x90' Product Radial Stacker	C-11	7%	0.00229
30" x 60' Fines Collecting Conveyor	C-12	7%	0.00076
Deister 6' x 24' Triple Deck Screen	SCR-1	7%	0.07207
Cedar Rapids 8'x20' 3 Deck Finishing Screen	SCR-2	7%	0.07207
Simplicity 3 Deck Wash Screen	SCR-3	0%	0.00000
Simplicity Sand Screw	SS-1	0%	0.00000
Grizzly Feeder	F-1	7%	0.07207
Primary Dump Hopper	DH-1	7%	0.00052
15 CuYd Surge Bin	DH-2	7%	0.00052
Cedarapids CRJ 3255 Jaw Crusher Primary	CR-1	12%	0.05616
Cedarapids MVP-450X Secondary Crusher	CR-2	12%	0.06739
		TOTAL	**0.37**

Site Location Map - CreekWood Resources



TEREX®

Terex® Minerals Processing Systems

Terex® Simplicity TXW516S | Portable Screen and Wash Plant

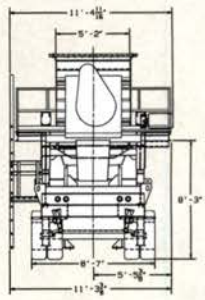
TXW516S

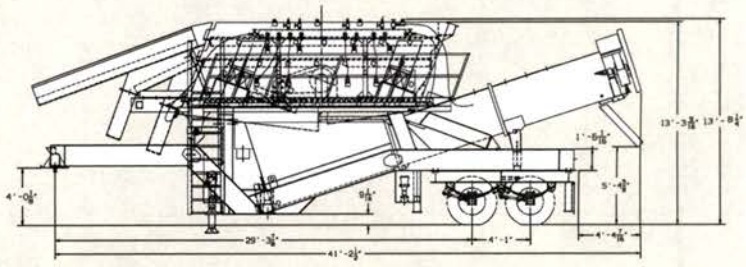
5' x 16' PORTABLE INCLINE SCREEN WITH SINGLE SCREW WASH PLANT

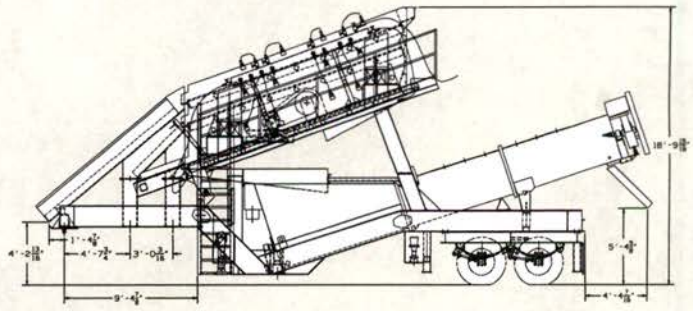
Terex® Simplicity TXW516S | 5' x 16' Portable Incline Screen with Single Screw Wash Plant

- 5' x 16' Simplicity triple deck inclined two bearing screen.
- Chassis features heavy duty I-beam construction with four cribbing support legs and two manual landing jacks for easy truck removal. Chassis includes a double-axle suspension, eight 11:00 R 22.5 twelve-ply tires mounted on 10-hole Budd wheels, 5th wheel, air brakes on two axles, mud flaps, and tail lights.
- 1800 rpm, TEFC electric motor for screen drive, accessible by ladder and walkway around three sides of the screen.
- The under-screen fines collection flume is made from ¼" plate and has a splash-type spray system. Water spray systems on all screen decks, flume, and washout.
- Heavy-duty 36" x 25' single screw with 15 HP drive.
- Manifold with the necessary hardware, valves, and hoses.
- Heavy-duty discharge chute made from ¼" plate and lined with Hardox® abrasion resistant plate in heavy wear areas. The discharge chute includes a top deck-over chute with discharge to the front of the plant. The middle deck chute discharges to the side, and the bottom deck chute discharges to the opposite side.
- All standard guards provided. NOTE: Terex Simplicity does not warrant that our guards will meet all local codes. It is the responsibility of the end user to have them checked by a local inspector.
- Painted in Terex White.
- NOTE: Dimensions and specifications are subject to change without notice.

Travel width:	11'
Total weight:	49,000 lbs.
King pin weight:	13,500 lbs.
Tandem suspension weight:	35,500 lbs.







PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

206 - 0051 - X001
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1. **Name of firm or organization:** CreekWood Resources, LLC

2. **Briefly describe the operation of this unit or process in your facility: (separate forms are to be submitted for each type of process or for multiple units of one process type. If the unit or process receives input material from, or provides input material to, another operation, please indicate the relationship between the operations.) An application should be completed for each alternative operating scenario.**

Operating scenario number 1

Emission Point C-1 Primary Conveyor. Granite will be dumped from a CAT 980M or equivalent loader into the dump hopper (DH-1). From the dump hopper, over sized material slides over the vibrating grizzly feeder (F-1) to the Primary Jaw Crusher (CR-1). Undersize material falls through the grizzly feeder (F-1) onto conveyor C-1. Material passes through the primary Jaw Crusher (CR-1), is crushed and broken, and falls through onto conveyor C-1. Primary conveyor C-1 feeds onto primary screen conveyor C-2.

3. **Type of unit or process (e.g., calcining kiln, cupola furnace):** Primary Crushing Unit including dump hopper (DH-1), vibrating grizzly feeder (F-1), primary jaw crusher (CR-1), and 48" Primary Discharge Conveyor (C-1)

Make: Cedar Rapids (made by Terex) **Model:** CRJ3255

Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 300 Tons/Hr

Manufactured date: 2018 **Proposed installation date:** Summer 2021

Original installation date (if existing): n/a

Reconstruction or Modification date (if applicable): n/a

4. **Normal operating schedule:**

Hours per day: 10 **Days per week:** 5 **Weeks per year:** 52

Peak production season (if any): Construction Season - April through October

5. **Materials (feed input) used in unit or process (include solid fuel materials used, if any):**

Material	Process Rate Average (lb/hr)	Maximum (lb/hr)	Quantity tons/year
Granite Shot Rock	300 Tons per Hour	300 Tons/Hour	936,000

6. **Total heat input capacity of process heating equipment (exclude fuel used by indirect heating equipment previously described on ADEM Form 104):** n/a **MMBtu/hr**

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal		Btu/lb				
Fuel Oil		Btu/gal				
Natural Gas		Btu/ft^3				
L. P. Gas		Btu/ft^3				
Wood		Btu/lb				
Other (specify)						

7. **Products of process or unit:**

Products	Quantity/year	Units of production
Granite	936,000 tons per year	tons per hour

8. **For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):** Fugitive emissions from processing the granite will be controlled using wet suppression. Water will be primarily sourced/recycled from on-site stormwater management basins, and a quarry sump. Although not anticipated, should the water supply used for wet suppression be interrupted and temporarily unavailable, the crushing plant would shut down until the water source was again available. In addition, at least one person trained and certified in EPA Method 9 Visual Emissions will be on-site at all times during operation of the processing plant.

9. Is there any emission control equipment on this emission source?

☑ Yes ☐ No (Where a control device exists, ADEM Form 110 must be completed and attached).

10. Air contaminant emission points: (Each point of emission should be listed separately and numbered so that it can be located on the attached flow diagram):

Emission Point	Stack							
	UTM Coordinates		Height Above Grade (Feet)	Base Elevation (Feet)	Diameter (Feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)						
C-1	660999.36	3619135.36	10	722				

* Std temperature is 68°F - Std pressure is 29.92" in Hg.

11. **Air contaminants emitted: Basis of estimate (material balance, stack test, emission factor, etc.) must be clearly indicated on calculations appended to this form. Fugitive emissions must be included and calculations must be appended.**

Emission Point	Pollutants	Potential Emissions (lb/hr)	Potential Emissions (Tons/yr)	Basis of Calculation	Regulatory Emission Limit (lb/hr)	Regulatory Emission Limit (units of standard)
SEE ATTACHED	EMISSION CALCULATIONS TABLES					

12. **Using a flow diagram:**

(1) **Illustrate input of raw materials,**

(2) **Label production processes, process fuel combustion, process equipment and air pollution control equipment,**

(3) **Illustrate locations of air contaminant release so that emission points under item 10 can be identified.**

☑ **(Check box if extra pages are attached)**
Process flow diagram

13. **Is this unit or process in compliance with all applicable air pollution rules and regulations?**

☑ Yes ☐ No

(if "no", a compliance schedule, ADEM Form 437 must be completed and attached.)

14. **Does the input material or product from this process or unit contain finely divided materials which could become airborne?**

☑ Yes ☐ No

15. **If "yes", is this material stored in piles or in some other facility as to make possible the creation of fugitive dust problems?**

☑ Yes ☐ No

List storage piles or other facility (if any):

Type of material	Particle size (diameter or screen size)	Pile size or facility (average tons)	Methods utilized to control fugitive emissions (wetted, covered, etc.)
CRUSHED GRANITE	1 1/2" X 3/4"	15,000	WET SUPPRESSION
CRUSHED GRANITE	3/4" X 0"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1" X 1/8"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1/2" X 1/8"	15,000	WET SUPPRESSION
CRUSHED GRANITE	1/8" X 0"	15,000	WET SUPPRESSION

Name of person preparing application: Jeffrey Major

Signature: _____ **Date:** 12/04/2020

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

206 - 0051 - X001
Do not write in this space

1. **Name of firm or organization:** CreekWood Resources, LLC

2. **Briefly describe the operation of this unit or process in your facility: (separate forms are to be submitted for each type of process or for multiple units of one process type. If the unit or process receives input material from, or provides input material to, another operation, please indicate the relationship between the operations.) An application should be completed for each alternative operating scenario.**

Operating scenario number 1

Emission Point C-2 Conveyor. Primary crushed granite is received from primary conveyor C-1, and discharges onto the top of screen SCR-1.

3. **Type of unit or process (e.g., calcining kiln, cupola furnace):** 48" Conveyor (C-2)

Make: unbranded **Model:** 48" x 60'

Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 300 Tons/Hr

Manufactured date: 2015 **Proposed installation date:** Summer 2021

Original installation date (if existing): n/a

Reconstruction or Modification date (if applicable): n/a

4. **Normal operating schedule:**

Hours per day: 10 **Days per week:** 5 **Weeks per year:** 52

Peak production season (if any): Construction Season - April through October

5. **Materials (feed input) used in unit or process (include solid fuel materials used, if any):**

Material	Process Rate Average (lb/hr)	Maximum (lb/hr)	Quantity tons/year
Granite (primary crushed)	300 Tons per Hour	300 Tons/Hour	936,000

6. **Total heat input capacity of process heating equipment (exclude fuel used by indirect heating equipment previously described on ADEM Form 104):** n/a **MMBtu/hr**

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal		Btu/lb				
Fuel Oil		Btu/gal				
Natural Gas		Btu/ft^3				
L. P. Gas		Btu/ft^3				
Wood		Btu/lb				
Other (specify)						

7. **Products of process or unit:**

Products	Quantity/year	Units of production
Granite	936,000 tons per year	tons per hour

8. **For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):** Fugitive emissions from processing the granite will be controlled using wet suppression. Water will be primarily sourced/recycled from on-site stormwater management basins, and a quarry sump. Although not anticipated, should the water supply used for wet suppression be interrupted and temporarily unavailable, the crushing plant would shut down until the water source was again available. In addition, at least one person trained and certified in EPA Method 9 Visual Emissions will be on-site at all times during operation of the processing plant.

9. Is there any emission control equipment on this emission source?

☑ Yes ☐ No (Where a control device exists, ADEM Form 110 must be completed and attached).

10. Air contaminant emission points: (Each point of emission should be listed separately and numbered so that it can be located on the attached flow diagram):

Emission Point	Stack							
	UTM Coordinates		Height Above Grade (Feet)	Base Elevation (Feet)	Diameter (Feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)						
C-2	660999.36	3619135.36	20	722				

* Std temperature is 68°F - Std pressure is 29.92" in Hg.

11. **Air contaminants emitted: Basis of estimate (material balance, stack test, emission factor, etc.) must be clearly indicated on calculations appended to this form. Fugitive emissions must be included and calculations must be appended.**

Emission Point	Pollutants	Potential Emissions (lb/hr)	Potential Emissions (Tons/yr)	Basis of Calculation	Regulatory Emission Limit (lb/hr)	Regulatory Emission Limit (units of standard)
SEE ATTACHED	EMISSION CALCULATIONS TABLES					

12. **Using a flow diagram:**

(1) **Illustrate input of raw materials,**

(2) **Label production processes, process fuel combustion, process equipment and air pollution control equipment,**

(3) **Illustrate locations of air contaminant release so that emission points under item 10 can be identified.**

☑ **(Check box if extra pages are attached)**
Process flow diagram

13. **Is this unit or process in compliance with all applicable air pollution rules and regulations?**

☑ Yes ☐ No

(if "no", a compliance schedule, ADEM Form 437 must be completed and attached.)

14. **Does the input material or product from this process or unit contain finely divided materials which could become airborne?**

☑ Yes ☐ No

15. **If "yes", is this material stored in piles or in some other facility as to make possible the creation of fugitive dust problems?**

☑ Yes ☐ No

List storage piles or other facility (if any):

Type of material	Particle size (diameter or screen size)	Pile size or facility (average tons)	Methods utilized to control fugitive emissions (wetted, covered, etc.)
CRUSHED GRANITE	1 1/2" X 3/4"	15,000	WET SUPPRESSION
CRUSHED GRANITE	3/4" X 0"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1" X 1/8"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1/2" X 1/8"	15,000	WET SUPPRESSION
CRUSHED GRANITE	1/8" X 0"	15,000	WET SUPPRESSION

Name of person preparing application: Jeffrey Major

Signature: _____ **Date:** 12/4/2020

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

206 - 0051 - X001
Do not write in this space

1. **Name of firm or organization:** CreekWood Resources, LLC

2. **Briefly describe the operation of this unit or process in your facility: (separate forms are to be submitted for each type of process or for multiple units of one process type. If the unit or process receives input material from, or provides input material to, another operation, please indicate the relationship between the operations.) An application should be completed for each alternative operating scenario.**

   Operating scenario number 1

   Emission Point C-3 Conveyor. Crushed and screened granite is received from Screen SCR-1, and discharges into a stockpile.

3. **Type of unit or process (e.g., calcining kiln, cupola furnace):** 36" x 60' Conveyor

   Make: unbranded **Model:** 36" x 60'

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 100 Tons/Hr

   Manufactured date: 2015 **Proposed installation date:** Summer 2021

   Original installation date (if existing): n/a

   Reconstruction or Modification date (if applicable): n/a

4. **Normal operating schedule:**

   Hours per day: 10 **Days per week:** 5 **Weeks per year:** 52

   Peak production season (if any): Construction Season - April through October

5. **Materials (feed input) used in unit or process (include solid fuel materials used, if any):**

Material	Process Rate Average (lb/hr)	Maximum (lb/hr)	Quantity tons/year
Crushed and Screened Granite	100 Tons per Hour	100 Tons/Hour	312,000

6. **Total heat input capacity of process heating equipment (exclude fuel used by indirect heating equipment previously described on ADEM Form 104):** n/a **MMBtu/hr**

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal		Btu/lb				
Fuel Oil		Btu/gal				
Natural Gas		Btu/ft^3				
L. P. Gas		Btu/ft^3				
Wood		Btu/lb				
Other (specify)						

7. **Products of process or unit:**

Products	Quantity/year	Units of production
Granite	312,000 tons per year maximum production for the facility	tons per hour

8. **For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):** Fugitive emissions from processing the granite will be controlled using wet suppression. Water will be primarily sourced/recycled from on-site stormwater management basins, and a quarry sump. Although not anticipated, should the water supply used for wet suppression be interrupted and temporarily unavailable, the crushing plant would shut down until the water source was again available. In addition, at least one person trained and certified in EPA Method 9 Visual Emissions will be on-site at all times during operation of the processing plant.

9. Is there any emission control equipment on this emission source?

☑ Yes ☐ No (Where a control device exists, ADEM Form 110 must be completed and attached).

10. Air contaminant emission points: (Each point of emission should be listed separately and numbered so that it can be located on the attached flow diagram):

Emission Point	Stack							
	UTM Coordinates		Height Above Grade (Feet)	Base Elevation (Feet)	Diameter (Feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)						
C-3	660999.36	3619135.36	30	722				

* Std temperature is 68°F - Std pressure is 29.92" in Hg.

11. **Air contaminants emitted: Basis of estimate (material balance, stack test, emission factor, etc.) must be clearly indicated on calculations appended to this form. Fugitive emissions must be included and calculations must be appended.**

Emission Point	Pollutants	Potential Emissions (lb/hr)	Potential Emissions (Tons/yr)	Basis of Calculation	Regulatory Emission Limit (lb/hr)	Regulatory Emission Limit (units of standard)
SEE ATTACHED	EMISSION CALCULATIONS TABLES					

12. **Using a flow diagram:**

(1) **Illustrate input of raw materials,**

(2) **Label production processes, process fuel combustion, process equipment and air pollution control equipment,**

(3) **Illustrate locations of air contaminant release so that emission points under item 10 can be identified.**

☑ **(Check box if extra pages are attached)**
Process flow diagram

13. **Is this unit or process in compliance with all applicable air pollution rules and regulations?**

☑ Yes ☐ No

(if "no", a compliance schedule, ADEM Form 437 must be completed and attached.)

14. **Does the input material or product from this process or unit contain finely divided materials which could become airborne?**

☑ Yes ☐ No

15. **If "yes", is this material stored in piles or in some other facility as to make possible the creation of fugitive dust problems?**

☑ Yes ☐ No

List storage piles or other facility (if any):

Type of material	Particle size (diameter or screen size)	Pile size or facility (average tons)	Methods utilized to control fugitive emissions (wetted, covered, etc.)
CRUSHED GRANITE	1 1/2" X 3/4"	15,000	WET SUPPRESSION
CRUSHED GRANITE	3/4" X 0"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1" X 1/8"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1/2" X 1/8"	15,000	WET SUPPRESSION
CRUSHED GRANITE	1/8" X 0"	15,000	WET SUPPRESSION

Name of person preparing application: Jeffrey Major

Signature: _____ **Date:** 12/04/2020

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

206 - 0051 - X001
Do not write in this space

1. **Name of firm or organization:** CreekWood Resources, LLC

2. **Briefly describe the operation of this unit or process in your facility: (separate forms are to be submitted for each type of process or for multiple units of one process type. If the unit or process receives input material from, or provides input material to, another operation, please indicate the relationship between the operations.) An application should be completed for each alternative operating scenario.**

   Operating scenario number 1

   Emission Point C-4 Conveyor. Crushed and screened granite is received from Screen SCR-1, and discharges into a stockpile.

3. **Type of unit or process (e.g., calcining kiln, cupola furnace):** 30" x 85' Conveyor

   Make: unbranded **Model:** 30" x 85'

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 150 Tons/Hr

   Manufactured date: 2012 **Proposed installation date:** Summer 2021

   Original installation date (if existing): n/a

   Reconstruction or Modification date (if applicable): n/a

4. **Normal operating schedule:**

   Hours per day: 10 **Days per week:** 5 **Weeks per year:** 52

   Peak production season (if any): Construction Season - April through October

5. **Materials (feed input) used in unit or process (include solid fuel materials used, if any):**

Material	Process Rate Average (lb/hr)	Maximum (lb/hr)	Quantity tons/year
Crushed and Screened Granite	150 Tons per Hour	150 Tons/Hour	468,000

6. **Total heat input capacity of process heating equipment (exclude fuel used by indirect heating equipment previously described on ADEM Form 104):** n/a **MMBtu/hr**

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal		Btu/lb				
Fuel Oil		Btu/gal				
Natural Gas		Btu/ft^3				
L. P. Gas		Btu/ft^3				
Wood		Btu/lb				
Other (specify)						

7. **Products of process or unit:**

Products	Quantity/year	Units of production
Granite	468,000 tons per year	tons per hour

8. **For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):** Fugitive emissions from processing the granite will be controlled using wet suppression. Water will be primarily sourced/recycled from on-site stormwater management basins, and a quarry sump. Although not anticipated, should the water supply used for wet suppression be interrupted and temporarily unavailable, the crushing plant would shut down until the water source was again available. In addition, at least one person trained and certified in EPA Method 9 Visual Emissions will be on-site at all times during operation of the processing plant.

9. Is there any emission control equipment on this emission source?

☑ Yes ☐ No (Where a control device exists, ADEM Form 110 must be completed and attached).

10. Air contaminant emission points: (Each point of emission should be listed separately and numbered so that it can be located on the attached flow diagram):

Emission Point	Stack							
	UTM Coordinates		Height Above Grade (Feet)	Base Elevation (Feet)	Diameter (Feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)						
C-4	660999.36	3619135.36	30	722				

* Std temperature is 68°F - Std pressure is 29.92" in Hg.

11. **Air contaminants emitted: Basis of estimate (material balance, stack test, emission factor, etc.) must be clearly indicated on calculations appended to this form. Fugitive emissions must be included and calculations must be appended.**

Emission Point	Pollutants	Potential Emissions (lb/hr)	Potential Emissions (Tons/yr)	Basis of Calculation	Regulatory Emission Limit (lb/hr)	Regulatory Emission Limit (units of standard)
SEE ATTACHED	EMISSION CALCULATIONS TABLES					

12. **Using a flow diagram:**

(1) **Illustrate input of raw materials,**

(2) **Label production processes, process fuel combustion, process equipment and air pollution control equipment,**

(3) **Illustrate locations of air contaminant release so that emission points under item 10 can be identified.**

☑ **(Check box if extra pages are attached)**
Process flow diagram

13. **Is this unit or process in compliance with all applicable air pollution rules and regulations?**

☑ Yes ☐ No

(if "no", a compliance schedule, ADEM Form 437 must be completed and attached.)

14. **Does the input material or product from this process or unit contain finely divided materials which could become airborne?**

☑ Yes ☐ No

15. **If "yes", is this material stored in piles or in some other facility as to make possible the creation of fugitive dust problems?**

☑ Yes ☐ No

List storage piles or other facility (if any):

Type of material	Particle size (diameter or screen size)	Pile size or facility (average tons)	Methods utilized to control fugitive emissions (wetted, covered, etc.)
CRUSHED GRANITE	1 1/2" X 3/4"	15,000	WET SUPPRESSION
CRUSHED GRANITE	3/4" X 0"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1" X 1/8"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1/2" X 1/8"	15,000	WET SUPPRESSION
CRUSHED GRANITE	1/8" X 0"	15,000	WET SUPPRESSION

Name of person preparing application: Jeffrey Major

Signature: _____ **Date:** 12/04/2020

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

206 - 0051 - X001
Do not write in this space

1. **Name of firm or organization:** CreekWood Resources, LLC

2. **Briefly describe the operation of this unit or process in your facility: (separate forms are to be submitted for each type of process or for multiple units of one process type. If the unit or process receives input material from, or provides input material to, another operation, please indicate the relationship between the operations.) An application should be completed for each alternative operating scenario.**

   Operating scenario number 1

   Emission Point C-5 Conveyor. Crushed and screened granite is received from Screen SCR-1, and discharges into Surge Bin DH-2.

3. **Type of unit or process (e.g., calcining kiln, cupola furnace):** 36" x 60' Conveyor

   Make: unbranded **Model:** 36" x 60'

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 300 Tons/Hr

   Manufactured date: 2015 **Proposed installation date:** Summer 2021

   Original installation date (if existing): n/a

   Reconstruction or Modification date (if applicable): n/a

4. **Normal operating schedule:**

   Hours per day: 10 **Days per week:** 5 **Weeks per year:** 52

   Peak production season (if any): Construction Season - April through October

5. **Materials (feed input) used in unit or process (include solid fuel materials used, if any):**

Material	Process Rate Average (lb/hr)	Maximum (lb/hr)	Quantity tons/year
Crushed and Screened Granite	300 Tons per Hour	300 Tons/Hour	936,000

6. **Total heat input capacity of process heating equipment (exclude fuel used by indirect heating equipment previously described on ADEM Form 104):** n/a **MMBtu/hr**

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal		Btu/lb				
Fuel Oil		Btu/gal				
Natural Gas		Btu/ft^3				
L. P. Gas		Btu/ft^3				
Wood		Btu/lb				
Other (specify)						

7. **Products of process or unit:**

Products	Quantity/year	Units of production
Granite	936,000 tons per year	tons per hour

8. **For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):** Fugitive emissions from processing the granite will be controlled using wet suppression. Water will be primarily sourced/recycled from on-site stormwater management basins, and a quarry sump. Although not anticipated, should the water supply used for wet suppression be interrupted and temporarily unavailable, the crushing plant would shut down until the water source was again available. In addition, at least one person trained and certified in EPA Method 9 Visual Emissions will be on-site at all times during operation of the processing plant.

9. Is there any emission control equipment on this emission source?

☑ Yes ☐ No (Where a control device exists, ADEM Form 110 must be completed and attached).

10. Air contaminant emission points: (Each point of emission should be listed separately and numbered so that it can be located on the attached flow diagram):

Emission Point	Stack							
	UTM Coordinates		Height Above Grade (Feet)	Base Elevation (Feet)	Diameter (Feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)						
C-5	660999.36	3619135.36	20	722				

* Std temperature is 68°F - Std pressure is 29.92" in Hg.

11. **Air contaminants emitted: Basis of estimate (material balance, stack test, emission factor, etc.) must be clearly indicated on calculations appended to this form. Fugitive emissions must be included and calculations must be appended.**

Emission Point	Pollutants	Potential Emissions (lb/hr)	Potential Emissions (Tons/yr)	Basis of Calculation	Regulatory Emission Limit (lb/hr)	Regulatory Emission Limit (units of standard)
SEE ATTACHED	EMISSION CALCULATIONS TABLES					

12. **Using a flow diagram:**

(1) **Illustrate input of raw materials,**

(2) **Label production processes, process fuel combustion, process equipment and air pollution control equipment,**

(3) **Illustrate locations of air contaminant release so that emission points under item 10 can be identified.**

☑ **(Check box if extra pages are attached)**
Process flow diagram

13. **Is this unit or process in compliance with all applicable air pollution rules and regulations?**

☑ Yes ☐ No

(if "no", a compliance schedule, ADEM Form 437 must be completed and attached.)

14. **Does the input material or product from this process or unit contain finely divided materials which could become airborne?**

☑ Yes ☐ No

15. **If "yes", is this material stored in piles or in some other facility as to make possible the creation of fugitive dust problems?**

☑ Yes ☐ No

List storage piles or other facility (if any):

Type of material	Particle size (diameter or screen size)	Pile size or facility (average tons)	Methods utilized to control fugitive emissions (wetted, covered, etc.)
CRUSHED GRANITE	1 1/2" X 3/4"	15,000	WET SUPPRESSION
CRUSHED GRANITE	3/4" X 0"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1" X 1/8"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1/2" X 1/8"	15,000	WET SUPPRESSION
CRUSHED GRANITE	1/8" X 0"	15,000	WET SUPPRESSION

Name of person preparing application: Jeffrey Major

Signature: _____ **Date:** 12/04/2020

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

206 - 0051 - X001
Do not write in this space

1. **Name of firm or organization:** CreekWood Resources, LLC

2. **Briefly describe the operation of this unit or process in your facility: (separate forms are to be submitted for each type of process or for multiple units of one process type. If the unit or process receives input material from, or provides input material to, another operation, please indicate the relationship between the operations.) An application should be completed for each alternative operating scenario.**

   Operating scenario number 1

   Emission Point C-6 Conveyor. Crushed and screened granite is received from crusher CR-2, and discharges onto Screen SCR-2.

3. **Type of unit or process (e.g., calcining kiln, cupola furnace):** 48" x 55' Conveyor

   Make: unbranded **Model:** 48" x 55'

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 300 Tons/Hr

   Manufactured date: 2012 **Proposed installation date:** Summer 2021

   Original installation date (if existing): n/a

   Reconstruction or Modification date (if applicable): n/a

4. **Normal operating schedule:**

   Hours per day: 10 **Days per week:** 5 **Weeks per year:** 52

   Peak production season (if any): Construction Season - April through October

5. **Materials (feed input) used in unit or process (include solid fuel materials used, if any):**

Material	Process Rate Average (lb/hr)	Maximum (lb/hr)	Quantity tons/year
Crushed and Screened Granite	300 Tons per Hour	300 Tons/Hour	936,000

6. **Total heat input capacity of process heating equipment (exclude fuel used by indirect heating equipment previously described on ADEM Form 104):** n/a **MMBtu/hr**

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal		Btu/lb				
Fuel Oil		Btu/gal				
Natural Gas		Btu/ft^3				
L. P. Gas		Btu/ft^3				
Wood		Btu/lb				
Other (specify)						

7. **Products of process or unit:**

Products	Quantity/year	Units of production
Granite	936,000 tons per year	tons per hour

8. **For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):** Fugitive emissions from processing the granite will be controlled using wet suppression. Water will be primarily sourced/recycled from on-site stormwater management basins, and a quarry sump. Although not anticipated, should the water supply used for wet suppression be interrupted and temporarily unavailable, the crushing plant would shut down until the water source was again available. In addition, at least one person trained and certified in EPA Method 9 Visual Emissions will be on-site at all times during operation of the processing plant.

9. Is there any emission control equipment on this emission source?

☑ Yes ☐ No (Where a control device exists, ADEM Form 110 must be completed and attached).

10. Air contaminant emission points: (Each point of emission should be listed separately and numbered so that it can be located on the attached flow diagram):

Emission Point	Stack							
	UTM Coordinates		Height Above Grade (Feet)	Base Elevation (Feet)	Diameter (Feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)						
C-6	660999.36	3619135.36	20	722				

* Std temperature is 68°F - Std pressure is 29.92" in Hg.

11. **Air contaminants emitted: Basis of estimate (material balance, stack test, emission factor, etc.) must be clearly indicated on calculations appended to this form. Fugitive emissions must be included and calculations must be appended.**

Emission Point	Pollutants	Potential Emissions (lb/hr)	Potential Emissions (Tons/yr)	Basis of Calculation	Regulatory Emission Limit (lb/hr)	Regulatory Emission Limit (units of standard)
SEE ATTACHED	EMISSION CALCULATIONS TABLES					

12. **Using a flow diagram:**

(1) **Illustrate input of raw materials,**

(2) **Label production processes, process fuel combustion, process equipment and air pollution control equipment,**

(3) **Illustrate locations of air contaminant release so that emission points under item 10 can be identified.**

☑ **(Check box if extra pages are attached)**
Process flow diagram

13. **Is this unit or process in compliance with all applicable air pollution rules and regulations?**

☑ Yes ☐ No

(if "no", a compliance schedule, ADEM Form 437 must be completed and attached.)

14. **Does the input material or product from this process or unit contain finely divided materials which could become airborne?**

☑ Yes ☐ No

15. **If "yes", is this material stored in piles or in some other facility as to make possible the creation of fugitive dust problems?**

☑ Yes ☐ No

List storage piles or other facility (if any):

Type of material	Particle size (diameter or screen size)	Pile size or facility (average tons)	Methods utilized to control fugitive emissions (wetted, covered, etc.)
CRUSHED GRANITE	1 1/2" X 3/4"	15,000	WET SUPPRESSION
CRUSHED GRANITE	3/4" X 0"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1" X 1/8"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1/2" X 1/8"	15,000	WET SUPPRESSION
CRUSHED GRANITE	1/8" X 0"	15,000	WET SUPPRESSION

Name of person preparing application: Jeffrey Major

Signature: _____ **Date:** 12/04/2020

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

206 - 0051 - X001
Do not write in this space

1. **Name of firm or organization:** CreekWood Resources, LLC

2. **Briefly describe the operation of this unit or process in your facility: (separate forms are to be submitted for each type of process or for multiple units of one process type. If the unit or process receives input material from, or provides input material to, another operation, please indicate the relationship between the operations.) An application should be completed for each alternative operating scenario.**

   Operating scenario number 1

   Emission Point C-7 Conveyor. Oversized crushed and screened granite is received from the top deck of Screen SCR-2 and discharges into Surge Bin DH-2.

3. **Type of unit or process (e.g., calcining kiln, cupola furnace):** 36" x 60' Conveyor

   Make: unbranded **Model:** 36" x 60'

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 100 Tons/Hr

   Manufactured date: 2015 **Proposed installation date:** Summer 2021

   Original installation date (if existing): n/a

   Reconstruction or Modification date (if applicable): n/a

4. **Normal operating schedule:**

   Hours per day: 10 **Days per week:** 5 **Weeks per year:** 52

   Peak production season (if any): Construction Season - April through October

5. **Materials (feed input) used in unit or process (include solid fuel materials used, if any):**

Material	Process Rate Average (lb/hr)	Maximum (lb/hr)	Quantity tons/year
Crushed and Screened Granite	100 Tons per Hour	100 Tons/Hour	312,000

6. **Total heat input capacity of process heating equipment (exclude fuel used by indirect heating equipment previously described on ADEM Form 104):** n/a **MMBtu/hr**

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal		Btu/lb				
Fuel Oil		Btu/gal				
Natural Gas		Btu/ft^3				
L. P. Gas		Btu/ft^3				
Wood		Btu/lb				
Other (specify)						

7. **Products of process or unit:**

Products	Quantity/year	Units of production
Granite	312,000 tons per year	tons per hour

8. **For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):** Fugitive emissions from processing the granite will be controlled using wet suppression. Water will be primarily sourced/recycled from on-site stormwater management basins, and a quarry sump. Although not anticipated, should the water supply used for wet suppression be interrupted and temporarily unavailable, the crushing plant would shut down until the water source was again available. In addition, at least one person trained and certified in EPA Method 9 Visual Emissions will be on-site at all times during operation of the processing plant.

9. Is there any emission control equipment on this emission source?

☑ Yes ☐ No (Where a control device exists, ADEM Form 110 must be completed and attached).

10. Air contaminant emission points: (Each point of emission should be listed separately and numbered so that it can be located on the attached flow diagram):

Emission Point	Stack							
	UTM Coordinates		Height Above Grade (Feet)	Base Elevation (Feet)	Diameter (Feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)						
C-7	660999.36	3619135.36	20	722				

* Std temperature is 68°F - Std pressure is 29.92" in Hg.

11. **Air contaminants emitted: Basis of estimate (material balance, stack test, emission factor, etc.) must be clearly indicated on calculations appended to this form. Fugitive emissions must be included and calculations must be appended.**

Emission Point	Pollutants	Potential Emissions (lb/hr)	Potential Emissions (Tons/yr)	Basis of Calculation	Regulatory Emission Limit (lb/hr)	Regulatory Emission Limit (units of standard)
SEE ATTACHED	EMISSION CALCULATIONS TABLES					

12. **Using a flow diagram:**

(1) **Illustrate input of raw materials,**

(2) **Label production processes, process fuel combustion, process equipment and air pollution control equipment,**

(3) **Illustrate locations of air contaminant release so that emission points under item 10 can be identified.**

☑ **(Check box if extra pages are attached)**
Process flow diagram

13. **Is this unit or process in compliance with all applicable air pollution rules and regulations?**

☑ Yes ☐ No

(if "no", a compliance schedule, ADEM Form 437 must be completed and attached.)

14. **Does the input material or product from this process or unit contain finely divided materials which could become airborne?**

☑ Yes ☐ No

15. **If "yes", is this material stored in piles or in some other facility as to make possible the creation of fugitive dust problems?**

☑ Yes ☐ No

List storage piles or other facility (if any):

Type of material	Particle size (diameter or screen size)	Pile size or facility (average tons)	Methods utilized to control fugitive emissions (wetted, covered, etc.)
CRUSHED GRANITE	1 1/2" X 3/4"	15,000	WET SUPPRESSION
CRUSHED GRANITE	3/4" X 0"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1" X 1/8"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1/2" X 1/8"	15,000	WET SUPPRESSION
CRUSHED GRANITE	1/8" X 0"	15,000	WET SUPPRESSION

Name of person preparing application: Jeffrey Major

Signature: _____ **Date:** 12/04/2020

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

206 - 0051 - X001
Do not write in this space

1. **Name of firm or organization:** CreekWood Resources, LLC

2. **Briefly describe the operation of this unit or process in your facility: (separate forms are to be submitted for each type of process or for multiple units of one process type. If the unit or process receives input material from, or provides input material to, another operation, please indicate the relationship between the operations.) An application should be completed for each alternative operating scenario.**

   Operating scenario number 1

   Emission Point C-8 Conveyor. Crushed and screened granite is received from Screen SCR-2, and discharges onto either conveyor C-9 or Conveyor C-12.

3. **Type of unit or process (e.g., calcining kiln, cupola furnace):** 30" x 60' Conveyor

   Make: unbranded **Model:** 30" x 60'

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 100 Tons/Hr

   Manufactured date: 2012 **Proposed installation date:** Summer 2021

   Original installation date (if existing): n/a

   Reconstruction or Modification date (if applicable): n/a

4. **Normal operating schedule:**

   Hours per day: 10 **Days per week:** 5 **Weeks per year:** 52

   Peak production season (if any): Construction Season - April through October

5. **Materials (feed input) used in unit or process (include solid fuel materials used, if any):**

Material	Process Rate Average (lb/hr)	Maximum (lb/hr)	Quantity tons/year
Crushed and Screened Granite	100 Tons per Hour	100 Tons/Hour	312,000

6. **Total heat input capacity of process heating equipment (exclude fuel used by indirect heating equipment previously described on ADEM Form 104):** n/a **MMBtu/hr**

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal		Btu/lb				
Fuel Oil		Btu/gal				
Natural Gas		Btu/ft^3				
L. P. Gas		Btu/ft^3				
Wood		Btu/lb				
Other (specify)						

7. **Products of process or unit:**

Products	Quantity/year	Units of production
Granite	312,000 tons per year	tons per hour

8. **For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):** Fugitive emissions from processing the granite will be controlled using wet suppression. Water will be primarily sourced/recycled from on-site stormwater management basins, and a quarry sump. Although not anticipated, should the water supply used for wet suppression be interrupted and temporarily unavailable, the crushing plant would shut down until the water source was again available. In addition, at least one person trained and certified in EPA Method 9 Visual Emissions will be on-site at all times during operation of the processing plant.

9. Is there any emission control equipment on this emission source?

☑ Yes ☐ No (Where a control device exists, ADEM Form 110 must be completed and attached).

10. Air contaminant emission points: (Each point of emission should be listed separately and numbered so that it can be located on the attached flow diagram):

Emission Point	Stack							
	UTM Coordinates		Height Above Grade (Feet)	Base Elevation (Feet)	Diameter (Feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)						
C-8	660999.36	3619135.36	15	722				

* Std temperature is 68°F - Std pressure is 29.92" in Hg.

11. **Air contaminants emitted: Basis of estimate (material balance, stack test, emission factor, etc.) must be clearly indicated on calculations appended to this form. Fugitive emissions must be included and calculations must be appended.**

Emission Point	Pollutants	Potential Emissions (lb/hr)	Potential Emissions (Tons/yr)	Basis of Calculation	Regulatory Emission Limit (lb/hr)	Regulatory Emission Limit (units of standard)
SEE ATTACHED	EMISSION CALCULATIONS TABLES					

12. **Using a flow diagram:**

(1) **Illustrate input of raw materials,**

(2) **Label production processes, process fuel combustion, process equipment and air pollution control equipment,**

(3) **Illustrate locations of air contaminant release so that emission points under item 10 can be identified.**

☑ **(Check box if extra pages are attached)**
Process flow diagram

13. Is this unit or process in compliance with all applicable air pollution rules and regulations?

☑ Yes ☐ No

(if "no", a compliance schedule, ADEM Form 437 must be completed and attached.)

14. Does the input material or product from this process or unit contain finely divided materials which could become airborne?

☑ Yes ☐ No

15. If "yes", is this material stored in piles or in some other facility as to make possible the creation of fugitive dust problems?

☑ Yes ☐ No

List storage piles or other facility (if any):

Type of material	Particle size (diameter or screen size)	Pile size or facility (average tons)	Methods utilized to control fugitive emissions (wetted, covered, etc.)
CRUSHED GRANITE	1 1/2" X 3/4"	15,000	WET SUPPRESSION
CRUSHED GRANITE	3/4" X 0"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1" X 1/8"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1/2" X 1/8"	15,000	WET SUPPRESSION
CRUSHED GRANITE	1/8" X 0"	15,000	WET SUPPRESSION

Name of person preparing application: Jeffrey Major

Signature: _____ Date: 12/04/2020

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

206 - 0051 - X001
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1. **Name of firm or organization:** CreekWood Resources, LLC

2. **Briefly describe the operation of this unit or process in your facility: (separate forms are to be submitted for each type of process or for multiple units of one process type. If the unit or process receives input material from, or provides input material to, another operation, please indicate the relationship between the operations.) An application should be completed for each alternative operating scenario.**

   Operating scenario number 1

   Emission Point C-9 Conveyor. Crushed and screened granite is received from conveyor C-8, and discharges into a stockpile.

3. **Type of unit or process (e.g., calcining kiln, cupola furnace):** 30" x 80' Conveyor

   Make: unbranded **Model:** 30" x 80'

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 100 Tons/Hr

   Manufactured date: 2015 **Proposed installation date:** Summer 2021

   Original installation date (if existing): n/a

   Reconstruction or Modification date (if applicable): n/a

4. **Normal operating schedule:**

   Hours per day: 10 **Days per week:** 5 **Weeks per year:** 52

   Peak production season (if any): Construction Season - April through October

5. **Materials (feed input) used in unit or process (include solid fuel materials used, if any):**

Material	Process Rate Average (lb/hr)	Maximum (lb/hr)	Quantity tons/year
Crushed and Screened Granite	100 Tons per Hour	100 Tons/Hour	312,000

6. **Total heat input capacity of process heating equipment (exclude fuel used by indirect heating equipment previously described on ADEM Form 104):** n/a **MMBtu/hr**

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal		Btu/lb				
Fuel Oil		Btu/gal				
Natural Gas		Btu/ft^3				
L. P. Gas		Btu/ft^3				
Wood		Btu/lb				
Other (specify)						

7. **Products of process or unit:**

Products	Quantity/year	Units of production
Granite	312,000 tons per year	tons per hour

8. **For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):** Fugitive emissions from processing the granite will be controlled using wet suppression. Water will be primarily sourced/recycled from on-site stormwater management basins, and a quarry sump. Although not anticipated, should the water supply used for wet suppression be interrupted and temporarily unavailable, the crushing plant would shut down until the water source was again available. In addition, at least one person trained and certified in EPA Method 9 Visual Emissions will be on-site at all times during operation of the processing plant.

9. Is there any emission control equipment on this emission source?

☑ Yes ☐ No (Where a control device exists, ADEM Form 110 must be completed and attached).

10. Air contaminant emission points: (Each point of emission should be listed separately and numbered so that it can be located on the attached flow diagram):

Emission Point	Stack							
	UTM Coordinates		Height Above Grade (Feet)	Base Elevation (Feet)	Diameter (Feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)						
C-9	660999.36	3619135.36	30	722				

* Std temperature is 68°F - Std pressure is 29.92" in Hg.

11. **Air contaminants emitted: Basis of estimate (material balance, stack test, emission factor, etc.) must be clearly indicated on calculations appended to this form. Fugitive emissions must be included and calculations must be appended.**

Emission Point	Pollutants	Potential Emissions (lb/hr)	Potential Emissions (Tons/yr)	Basis of Calculation	Regulatory Emission Limit (lb/hr)	Regulatory Emission Limit (units of standard)
SEE ATTACHED	EMISSION CALCULATIONS TABLES					

12. **Using a flow diagram:**

(1) **Illustrate input of raw materials,**

(2) **Label production processes, process fuel combustion, process equipment and air pollution control equipment,**

(3) **Illustrate locations of air contaminant release so that emission points under item 10 can be identified.**

☑ **(Check box if extra pages are attached)**
Process flow diagram

13. **Is this unit or process in compliance with all applicable air pollution rules and regulations?**

☑ Yes ☐ No

(if "no", a compliance schedule, ADEM Form 437 must be completed and attached.)

14. **Does the input material or product from this process or unit contain finely divided materials which could become airborne?**

☑ Yes ☐ No

15. **If "yes", is this material stored in piles or in some other facility as to make possible the creation of fugitive dust problems?**

☑ Yes ☐ No

List storage piles or other facility (if any):

Type of material	Particle size (diameter or screen size)	Pile size or facility (average tons)	Methods utilized to control fugitive emissions (wetted, covered, etc.)
CRUSHED GRANITE	1 1/2" X 3/4"	15,000	WET SUPPRESSION
CRUSHED GRANITE	3/4" X 0"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1" X 1/8"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1/2" X 1/8"	15,000	WET SUPPRESSION
CRUSHED GRANITE	1/8" X 0"	15,000	WET SUPPRESSION

Name of person preparing application: Jeffrey Major

Signature: _____ **Date:** 12/04/2020

PERMIT APPLICATION
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1. **Name of firm or organization:** CreekWood Resources, LLC

2. **Briefly describe the operation of this unit or process in your facility: (separate forms are to be submitted for each type of process or for multiple units of one process type. If the unit or process receives input material from, or provides input material to, another operation, please indicate the relationship between the operations.) An application should be completed for each alternative operating scenario.**

   Operating scenario number 1

   Emission Point C-10 Conveyor. Crushed and washed granite is received from Screen SCR-3, and discharges into a stockpile.

3. **Type of unit or process (e.g., calcining kiln, cupola furnace):** 30" x 90' Conveyor

   Make: unbranded **Model:** 30" x 90'

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 100 Tons/Hr

   Manufactured date: 2015 **Proposed installation date:** Summer 2021

   Original installation date (if existing): n/a

   Reconstruction or Modification date (if applicable): n/a

4. **Normal operating schedule:**

   Hours per day: 10 **Days per week:** 5 **Weeks per year:** 52

   Peak production season (if any): Construction Season - April through October

5. **Materials (feed input) used in unit or process (include solid fuel materials used, if any):**

Material	Process Rate Average (lb/hr)	Maximum (lb/hr)	Quantity tons/year
Crushed and Screened Granite	100 Tons per Hour	100 Tons/Hour	312,000

6. **Total heat input capacity of process heating equipment (exclude fuel used by indirect heating equipment previously described on ADEM Form 104):** n/a **MMBtu/hr**

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal		Btu/lb				
Fuel Oil		Btu/gal				
Natural Gas		Btu/ft^3				
L. P. Gas		Btu/ft^3				
Wood		Btu/lb				
Other (specify)						

7. **Products of process or unit:**

Products	Quantity/year	Units of production
Granite	312,000 tons per year	tons per hour

8. **For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):** Fugitive emissions from processing the granite will be controlled using wet suppression. Water will be primarily sourced/recycled from on-site stormwater management basins, and a quarry sump. Although not anticipated, should the water supply used for wet suppression be interrupted and temporarily unavailable, the crushing plant would shut down until the water source was again available. In addition, at least one person trained and certified in EPA Method 9 Visual Emissions will be on-site at all times during operation of the processing plant.

9. Is there any emission control equipment on this emission source?

☑ Yes ☐ No (Where a control device exists, ADEM Form 110 must be completed and attached).

10. Air contaminant emission points: (Each point of emission should be listed separately and numbered so that it can be located on the attached flow diagram):

Emission Point	Stack							
	UTM Coordinates		Height Above Grade (Feet)	Base Elevation (Feet)	Diameter (Feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)						
C-10	660999.36	3619135.36	30	722				

* Std temperature is 68°F - Std pressure is 29.92" in Hg.

11. **Air contaminants emitted: Basis of estimate (material balance, stack test, emission factor, etc.) must be clearly indicated on calculations appended to this form. Fugitive emissions must be included and calculations must be appended.**

Emission Point	Pollutants	Potential Emissions (lb/hr)	Potential Emissions (Tons/yr)	Basis of Calculation	Regulatory Emission Limit (lb/hr)	Regulatory Emission Limit (units of standard)
SEE ATTACHED	EMISSION CALCULATIONS TABLES					

12. **Using a flow diagram:**

(1) **Illustrate input of raw materials,**

(2) **Label production processes, process fuel combustion, process equipment and air pollution control equipment,**

(3) **Illustrate locations of air contaminant release so that emission points under item 10 can be identified.**

☑ **(Check box if extra pages are attached)**
Process flow diagram

13. **Is this unit or process in compliance with all applicable air pollution rules and regulations?**

☑ Yes ☐ No

(if "no", a compliance schedule, ADEM Form 437 must be completed and attached.)

14. **Does the input material or product from this process or unit contain finely divided materials which could become airborne?**

☑ Yes ☐ No

15. **If "yes", is this material stored in piles or in some other facility as to make possible the creation of fugitive dust problems?**

☑ Yes ☐ No

List storage piles or other facility (if any):

Type of material	Particle size (diameter or screen size)	Pile size or facility (average tons)	Methods utilized to control fugitive emissions (wetted, covered, etc.)
CRUSHED GRANITE	1 1/2" X 3/4"	15,000	WET SUPPRESSION
CRUSHED GRANITE	3/4" X 0"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1" X 1/8"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1/2" X 1/8"	15,000	WET SUPPRESSION
CRUSHED GRANITE	1/8" X 0"	15,000	WET SUPPRESSION

Name of person preparing application: Jeffrey Major

Signature: _____ **Date:** 12/04/2020

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1. **Name of firm or organization:** CreekWood Resources, LLC

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   Operating scenario number 1

   Emission Point C-11 Conveyor. Crushed and screened granite is received from Screen SCR-3, and discharges into a stockpile.

3. **Type of unit or process (e.g., calcining kiln, cupola furnace):** 30" x 90' Conveyor

   Make: unbranded **Model:** 30" x 90'

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 150 Tons/Hr

   Manufactured date: 2015 **Proposed installation date:** Summer 2021

   Original installation date (if existing): n/a

   Reconstruction or Modification date (if applicable): n/a

4. **Normal operating schedule:**

   Hours per day: 10 **Days per week:** 5 **Weeks per year:** 52

   Peak production season (if any): Construction Season - April through October

5. **Materials (feed input) used in unit or process (include solid fuel materials used, if any):**

Material	Process Rate Average (lb/hr)	Maximum (lb/hr)	Quantity tons/year
Crushed and Screened Granite	150 Tons per Hour	150 Tons/Hour	468,000

6. **Total heat input capacity of process heating equipment (exclude fuel used by indirect heating equipment previously described on ADEM Form 104):** n/a **MMBtu/hr**

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal		Btu/lb				
Fuel Oil		Btu/gal				
Natural Gas		Btu/ft^3				
L. P. Gas		Btu/ft^3				
Wood		Btu/lb				
Other (specify)						

7. **Products of process or unit:**

Products	Quantity/year	Units of production
Granite	468,000 tons per year	tons per hour

8. **For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):** Fugitive emissions from processing the granite will be controlled using wet suppression. Water will be primarily sourced/recycled from on-site stormwater management basins, and a quarry sump. Although not anticipated, should the water supply used for wet suppression be interrupted and temporarily unavailable, the crushing plant would shut down until the water source was again available. In addition, at least one person trained and certified in EPA Method 9 Visual Emissions will be on-site at all times during operation of the processing plant.

9. Is there any emission control equipment on this emission source?

☑ Yes ☐ No (Where a control device exists, ADEM Form 110 must be completed and attached).

10. Air contaminant emission points: (Each point of emission should be listed separately and numbered so that it can be located on the attached flow diagram):

Emission Point	Stack							
	UTM Coordinates		Height Above Grade (Feet)	Base Elevation (Feet)	Diameter (Feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)						
C-11	660999.36	3619135.36	30	722				

* Std temperature is 68°F - Std pressure is 29.92" in Hg.

11. **Air contaminants emitted: Basis of estimate (material balance, stack test, emission factor, etc.) must be clearly indicated on calculations appended to this form. Fugitive emissions must be included and calculations must be appended.**

Emission Point	Pollutants	Potential Emissions (lb/hr)	Potential Emissions (Tons/yr)	Basis of Calculation	Regulatory Emission Limit (lb/hr)	Regulatory Emission Limit (units of standard)
SEE ATTACHED	EMISSION CALCULATIONS TABLES					

12. **Using a flow diagram:**

(1) **Illustrate input of raw materials,**

(2) **Label production processes, process fuel combustion, process equipment and air pollution control equipment,**

(3) **Illustrate locations of air contaminant release so that emission points under item 10 can be identified.**

☑ **(Check box if extra pages are attached)**
Process flow diagram

13. **Is this unit or process in compliance with all applicable air pollution rules and regulations?**

☑ Yes ☐ No

(if "no", a compliance schedule, ADEM Form 437 must be completed and attached.)

14. **Does the input material or product from this process or unit contain finely divided materials which could become airborne?**

☑ Yes ☐ No

15. **If "yes", is this material stored in piles or in some other facility as to make possible the creation of fugitive dust problems?**

☑ Yes ☐ No

List storage piles or other facility (if any):

Type of material	Particle size (diameter or screen size)	Pile size or facility (average tons)	Methods utilized to control fugitive emissions (wetted, covered, etc.)
CRUSHED GRANITE	1 1/2" X 3/4"	15,000	WET SUPPRESSION
CRUSHED GRANITE	3/4" X 0"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1" X 1/8"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1/2" X 1/8"	15,000	WET SUPPRESSION
CRUSHED GRANITE	1/8" X 0"	15,000	WET SUPPRESSION

Name of person preparing application: Jeffrey Major

Signature: _____ **Date:** 12/04/2020

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Operating scenario number 1

Emission Point C-12 Conveyor. Crushed and screened granite is received from conveyor C-8, and discharges, as needed onto the stockpile supplied by Conveyor C-4.

3. **Type of unit or process (e.g., calcining kiln, cupola furnace):** 30" x 60' Conveyor

Make: unbranded **Model:** 30" x 60'

Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 50 Tons/Hr

Manufactured date: 2017 **Proposed installation date:** Summer 2021

Original installation date (if existing): n/a

Reconstruction or Modification date (if applicable): n/a

4. **Normal operating schedule:**

Hours per day: 10 **Days per week:** 5 **Weeks per year:** 52

Peak production season (if any): Construction Season - April through October

5. **Materials (feed input) used in unit or process (include solid fuel materials used, if any):**

Material	Process Rate Average (lb/hr)	Maximum (lb/hr)	Quantity tons/year
Crushed and Screened Granite	50 Tons per Hour	50 Tons/Hour	156,000

6. **Total heat input capacity of process heating equipment (exclude fuel used by indirect heating equipment previously described on ADEM Form 104):** n/a **MMBtu/hr**

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal		Btu/lb				
Fuel Oil		Btu/gal				
Natural Gas		Btu/ft^3				
L. P. Gas		Btu/ft^3				
Wood		Btu/lb				
Other (specify)						

7. **Products of process or unit:**

Products	Quantity/year	Units of production
Granite	156,000 tons per year	tons per hour

8. **For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):** Fugitive emissions from processing the granite will be controlled using wet suppression. Water will be primarily sourced/recycled from on-site stormwater management basins, and a quarry sump. Although not anticipated, should the water supply used for wet suppression be interrupted and temporarily unavailable, the crushing plant would shut down until the water source was again available. In addition, at least one person trained and certified in EPA Method 9 Visual Emissions will be on-site at all times during operation of the processing plant.

9. Is there any emission control equipment on this emission source?

☑ Yes ☐ No (Where a control device exists, ADEM Form 110 must be completed and attached).

10. Air contaminant emission points: (Each point of emission should be listed separately and numbered so that it can be located on the attached flow diagram):

Emission Point	Stack							
	UTM Coordinates		Height Above Grade (Feet)	Base Elevation (Feet)	Diameter (Feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)						
C-12	660999.36	3619135.36	30	722				

* Std temperature is 68°F - Std pressure is 29.92" in Hg.

11. **Air contaminants emitted: Basis of estimate (material balance, stack test, emission factor, etc.) must be clearly indicated on calculations appended to this form. Fugitive emissions must be included and calculations must be appended.**

Emission Point	Pollutants	Potential Emissions (lb/hr)	Potential Emissions (Tons/yr)	Basis of Calculation	Regulatory Emission Limit (lb/hr)	Regulatory Emission Limit (units of standard)
SEE ATTACHED	EMISSION CALCULATIONS TABLES					

12. **Using a flow diagram:**

(1) **Illustrate input of raw materials,**

(2) **Label production processes, process fuel combustion, process equipment and air pollution control equipment,**

(3) **Illustrate locations of air contaminant release so that emission points under item 10 can be identified.**

☑ **(Check box if extra pages are attached)**
Process flow diagram

13. Is this unit or process in compliance with all applicable air pollution rules and regulations?

☑ Yes ☐ No

(if "no", a compliance schedule, ADEM Form 437 must be completed and attached.)

14. Does the input material or product from this process or unit contain finely divided materials which could become airborne?

☑ Yes ☐ No

15. If "yes", is this material stored in piles or in some other facility as to make possible the creation of fugitive dust problems?

☑ Yes ☐ No

List storage piles or other facility (if any):

Type of material	Particle size (diameter or screen size)	Pile size or facility (average tons)	Methods utilized to control fugitive emissions (wetted, covered, etc.)
CRUSHED GRANITE	1 1/2" X 3/4"	15,000	WET SUPPRESSION
CRUSHED GRANITE	3/4" X 0"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1" X 1/8"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1/2" X 1/8"	15,000	WET SUPPRESSION
CRUSHED GRANITE	1/8" X 0"	15,000	WET SUPPRESSION

Name of person preparing application: Jeffrey Major

Signature: _____ Date: 12/04/2020

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   Operating scenario number 1

   Emission Point SCR-1 Triple Deck Screen. Primary crushed granite is received from conveyor C-2, and either slides over the top of the top screen deck to conveyor C-5 or falls through the top screen but is retained on the second screen where it slides over to conveyor C-5, or falls through the second screen onto the third screen where it either falls through onto Conveyor C-4 or slides over the top onto either conveyor C-3, C-4, or C-5 dependent on the end product being made.

3. **Type of unit or process (e.g., calcining kiln, cupola furnace):** Screen

   Make: Deister **Model:** 6' x24' Triple Deck

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 300 Tons/Hr

   Manufactured date: 2008 **Proposed installation date:** Summer 2021

   Original installation date (if existing): n/a

   Reconstruction or Modification date (if applicable): n/a

4. **Normal operating schedule:**

   Hours per day: 10 **Days per week:** 5 **Weeks per year:** 52

   Peak production season (if any): Construction Season - April through October

5. **Materials (feed input) used in unit or process (include solid fuel materials used, if any):**

Material	Process Rate Average (lb/hr)	Maximum (lb/hr)	Quantity tons/year
Granite (primary crushed)	300 Tons per Hour	300 Tons/Hour	936,000

6. **Total heat input capacity of process heating equipment (exclude fuel used by indirect heating equipment previously described on ADEM Form 104):** n/a **MMBtu/hr**

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal		Btu/lb				
Fuel Oil		Btu/gal				
Natural Gas		Btu/ft^3				
L. P. Gas		Btu/ft^3				
Wood		Btu/lb				
Other (specify)						

7. **Products of process or unit:**

Products	Quantity/year	Units of production
Granite	936,000 tons per year	tons per hour

8. **For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):** Fugitive emissions from processing the granite will be controlled using wet suppression. Water will be primarily sourced/recycled from on-site stormwater management basins, and a quarry sump. Although not anticipated, should the water supply used for wet suppression be interrupted and temporarily unavailable, the crushing plant would shut down until the water source was again available. In addition, at least one person trained and certified in EPA Method 9 Visual Emissions will be on-site at all times during operation of the processing plant.

9. Is there any emission control equipment on this emission source?

☑ Yes ☐ No (Where a control device exists, ADEM Form 110 must be completed and attached).

10. Air contaminant emission points: (Each point of emission should be listed separately and numbered so that it can be located on the attached flow diagram):

Emission Point	Stack							
	UTM Coordinates		Height Above Grade (Feet)	Base Elevation (Feet)	Diameter (Feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)						
SCR-1	660999.36	3619135.36	8	722				

* Std temperature is 68°F - Std pressure is 29.92" in Hg.

11. **Air contaminants emitted: Basis of estimate (material balance, stack test, emission factor, etc.) must be clearly indicated on calculations appended to this form. Fugitive emissions must be included and calculations must be appended.**

Emission Point	Pollutants	Potential Emissions (lb/hr)	Potential Emissions (Tons/yr)	Basis of Calculation	Regulatory Emission Limit (lb/hr)	Regulatory Emission Limit (units of standard)
SEE ATTACHED	EMISSION CALCULATIONS TABLES					

12. **Using a flow diagram:**

(1) **Illustrate input of raw materials,**

(2) **Label production processes, process fuel combustion, process equipment and air pollution control equipment,**

(3) **Illustrate locations of air contaminant release so that emission points under item 10 can be identified.**

☑ **(Check box if extra pages are attached)**
Process flow diagram

13. Is this unit or process in compliance with all applicable air pollution rules and regulations?

☑ Yes ☐ No

(if "no", a compliance schedule, ADEM Form 437 must be completed and attached.)

14. Does the input material or product from this process or unit contain finely divided materials which could become airborne?

☑ Yes ☐ No

15. If "yes", is this material stored in piles or in some other facility as to make possible the creation of fugitive dust problems?

☑ Yes ☐ No

List storage piles or other facility (if any):

Type of material	Particle size (diameter or screen size)	Pile size or facility (average tons)	Methods utilized to control fugitive emissions (wetted, covered, etc.)
CRUSHED GRANITE	1 1/2" X 3/4"	15,000	WET SUPPRESSION
CRUSHED GRANITE	3/4" X 0"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1" X 1/8"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1/2" X 1/8"	15,000	WET SUPPRESSION
CRUSHED GRANITE	1/8" X 0"	15,000	WET SUPPRESSION

Name of person preparing application: Jeffrey Major

Signature: _____ Date: 12/04/2020

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

206 - 0051 - X001
Do not write in this space

1. **Name of firm or organization:** CreekWood Resources, LLC

2. **Briefly describe the operation of this unit or process in your facility: (separate forms are to be submitted for each type of process or for multiple units of one process type. If the unit or process receives input material from, or provides input material to, another operation, please indicate the relationship between the operations.) An application should be completed for each alternative operating scenario.**

   Operating scenario number 1

   Emission Point SCR-2 Triple Deck Screen. Secondary crushed granite is received from conveyor C-6, and either slides over the top of the screen deck to conveyor C-7 or falls through the top screen but is retained on the second and third screens where it goes to wash screen SCR-3 or it falls through all screens onto Conveyor C-8.

3. **Type of unit or process (e.g., calcining kiln, cupola furnace):** Screen

   Make: Cedarapids **Model:** 8' x20' Triple Deck Finishing Screen

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 300 Tons/Hr

   Manufactured date: 2017 **Proposed installation date:** Summer 2021

   Original installation date (if existing): n/a

   Reconstruction or Modification date (if applicable): n/a

4. **Normal operating schedule:**

   Hours per day: 10 **Days per week:** 5 **Weeks per year:** 52

   Peak production season (if any): Construction Season - April through October

5. **Materials (feed input) used in unit or process (include solid fuel materials used, if any):**

Material	Process Rate Average (lb/hr)	Maximum (lb/hr)	Quantity tons/year
Granite (secondary crushed)	300 Tons per Hour	300 Tons/Hour	936,000

6. **Total heat input capacity of process heating equipment (exclude fuel used by indirect heating equipment previously described on ADEM Form 104):** n/a **MMBtu/hr**

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal		Btu/lb				
Fuel Oil		Btu/gal				
Natural Gas		Btu/ft^3				
L. P. Gas		Btu/ft^3				
Wood		Btu/lb				
Other (specify)						

7. **Products of process or unit:**

Products	Quantity/year	Units of production
Granite	936,000 tons per year	tons per hour

8. **For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):** Fugitive emissions from processing the granite will be controlled using wet suppression. Water will be primarily sourced/recycled from on-site stormwater management basins, and a quarry sump. Although not anticipated, should the water supply used for wet suppression be interrupted and temporarily unavailable, the crushing plant would shut down until the water source was again available. In addition, at least one person trained and certified in EPA Method 9 Visual Emissions will be on-site at all times during operation of the processing plant.

9. Is there any emission control equipment on this emission source?

☑ Yes ☐ No (Where a control device exists, ADEM Form 110 must be completed and attached).

10. Air contaminant emission points: (Each point of emission should be listed separately and numbered so that it can be located on the attached flow diagram):

Emission Point	Stack							
	UTM Coordinates		Height Above Grade (Feet)	Base Elevation (Feet)	Diameter (Feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)						
SCR-2	660999.36	3619135.36	8	722				

* Std temperature is 68°F - Std pressure is 29.92" in Hg.

11. **Air contaminants emitted: Basis of estimate (material balance, stack test, emission factor, etc.) must be clearly indicated on calculations appended to this form. Fugitive emissions must be included and calculations must be appended.**

Emission Point	Pollutants	Potential Emissions (lb/hr)	Potential Emissions (Tons/yr)	Basis of Calculation	Regulatory Emission Limit (lb/hr)	Regulatory Emission Limit (units of standard)
SEE ATTACHED	EMISSION CALCULATIONS TABLES					

12. **Using a flow diagram:**

(1) **Illustrate input of raw materials,**

(2) **Label production processes, process fuel combustion, process equipment and air pollution control equipment,**

(3) **Illustrate locations of air contaminant release so that emission points under item 10 can be identified.**

☑ **(Check box if extra pages are attached)**
Process flow diagram

13. **Is this unit or process in compliance with all applicable air pollution rules and regulations?**

☑ Yes ☐ No

(if "no", a compliance schedule, ADEM Form 437 must be completed and attached.)

14. **Does the input material or product from this process or unit contain finely divided materials which could become airborne?**

☑ Yes ☐ No

15. **If "yes", is this material stored in piles or in some other facility as to make possible the creation of fugitive dust problems?**

☑ Yes ☐ No

List storage piles or other facility (if any):

Type of material	Particle size (diameter or screen size)	Pile size or facility (average tons)	Methods utilized to control fugitive emissions (wetted, covered, etc.)
CRUSHED GRANITE	1 1/2" X 3/4"	15,000	WET SUPPRESSION
CRUSHED GRANITE	3/4" X 0"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1" X 1/8"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1/2" X 1/8"	15,000	WET SUPPRESSION
CRUSHED GRANITE	1/8" X 0"	15,000	WET SUPPRESSION

Name of person preparing application: Jeffrey Major

Signature: _____ **Date:** 12/04/2020

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

206 - 6051 - X001
Do not write in this space

1. **Name of firm or organization:** CreekWood Resources, LLC

2. **Briefly describe the operation of this unit or process in your facility: (separate forms are to be submitted for each type of process or for multiple units of one process type. If the unit or process receives input material from, or provides input material to, another operation, please indicate the relationship between the operations.) An application should be completed for each alternative operating scenario.**

Operating scenario number 1

Emission Point SCR-3 Triple Deck Wash Screen. Crushed granite is received from Screen SCR-2, is washed, and the rock that slides over the top deck goes to conveyor C-11, the rock that falls through the top screen but is retained on the second screen goes to conveyor C-10, and the material that goes through all of the screens and is washed off the larger rock falls through to Sand Screw SS-1.

3. **Type of unit or process (e.g., calcining kiln, cupola furnace):** Screen

Make: Simplicity **Model:** 5' x16' Triple Deck Wash Screen

Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 300 Tons/Hr

Manufactured date: 2017 **Proposed installation date:** Summer 2021

Original installation date (if existing): n/a

Reconstruction or Modification date (if applicable): n/a

4. **Normal operating schedule:**

Hours per day: 10 **Days per week:** 5 **Weeks per year:** 52

Peak production season (if any): Construction Season - April through October

5. **Materials (feed input) used in unit or process (include solid fuel materials used, if any):**

Material	Process Rate Average (lb/hr)	Maximum (lb/hr)	Quantity tons/year
Granite (secondary crushed)	300 Tons per Hour	300 Tons/Hour	936,000

6. **Total heat input capacity of process heating equipment (exclude fuel used by indirect heating equipment previously described on ADEM Form 104):** n/a **MMBtu/hr**

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal		Btu/lb				
Fuel Oil		Btu/gal				
Natural Gas		Btu/ft^3				
L. P. Gas		Btu/ft^3				
Wood		Btu/lb				
Other (specify)						

7. **Products of process or unit:**

Products	Quantity/year	Units of production
Granite	936,000 tons per year	tons per hour

8. **For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):** Fugitive emissions from processing the granite will be controlled using wet suppression. Water will be primarily sourced/recycled from on-site stormwater management basins, and a quarry sump. Although not anticipated, should the water supply used for wet suppression be interrupted and temporarily unavailable, the crushing plant would shut down until the water source was again available. In addition, at least one person trained and certified in EPA Method 9 Visual Emissions will be on-site at all times during operation of the processing plant.

9. Is there any emission control equipment on this emission source?

☑ Yes ☐ No (Where a control device exists, ADEM Form 110 must be completed and attached).

10. Air contaminant emission points: (Each point of emission should be listed separately and numbered so that it can be located on the attached flow diagram):

Emission Point	Stack							
	UTM Coordinates		Height Above Grade (Feet)	Base Elevation (Feet)	Diameter (Feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)						
SCR-3	660999.36	3619135.36	8	722				

* Std temperature is 68°F - Std pressure is 29.92" in Hg.

11. **Air contaminants emitted: Basis of estimate (material balance, stack test, emission factor, etc.) must be clearly indicated on calculations appended to this form. Fugitive emissions must be included and calculations must be appended.**

Emission Point	Pollutants	Potential Emissions (lb/hr)	Potential Emissions (Tons/yr)	Basis of Calculation	Regulatory Emission Limit (lb/hr)	Regulatory Emission Limit (units of standard)
SEE ATTACHED	EMISSION CALCULATIONS TABLES					

12. **Using a flow diagram:**

(1) **Illustrate input of raw materials,**

(2) **Label production processes, process fuel combustion, process equipment and air pollution control equipment,**

(3) **Illustrate locations of air contaminant release so that emission points under item 10 can be identified.**

☑ **(Check box if extra pages are attached)**
Process flow diagram

13. **Is this unit or process in compliance with all applicable air pollution rules and regulations?**

☑ Yes ☐ No

(if "no", a compliance schedule, ADEM Form 437 must be completed and attached.)

14. **Does the input material or product from this process or unit contain finely divided materials which could become airborne?**

☑ Yes ☐ No

15. **If "yes", is this material stored in piles or in some other facility as to make possible the creation of fugitive dust problems?**

☑ Yes ☐ No

List storage piles or other facility (if any):

Type of material	Particle size (diameter or screen size)	Pile size or facility (average tons)	Methods utilized to control fugitive emissions (wetted, covered, etc.)
CRUSHED GRANITE	1 1/2" X 3/4"	15,000	WET SUPPRESSION
CRUSHED GRANITE	3/4" X 0"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1" X 1/8"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1/2" X 1/8"	15,000	WET SUPPRESSION
CRUSHED GRANITE	1/8" X 0"	15,000	WET SUPPRESSION

Name of person preparing application: Jeffrey Major

Signature: _____ **Date:** 12/04/2020

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

206 - 0051 - X001
Do not write in this space

1. **Name of firm or organization:** CreekWood Resources, LLC

2. **Briefly describe the operation of this unit or process in your facility: (separate forms are to be submitted for each type of process or for multiple units of one process type. If the unit or process receives input material from, or provides input material to, another operation, please indicate the relationship between the operations.) An application should be completed for each alternative operating scenario.**

   Operating scenario number 1

   Emission Point SS-1 Wash Sand Screw. Washed crushed granite is received from Screen SCR-3, and the is conveyed via screw to a stockpile.

3. **Type of unit or process (e.g., calcining kiln, cupola furnace):** Wash Sand Screw

   Make: Simplicity **Model:** TXW516S (Sand Screw Portion)

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 50 Tons/Hr

   Manufactured date: 2017 **Proposed installation date:** Summer 2021

   Original installation date (if existing): n/a

   Reconstruction or Modification date (if applicable): n/a

4. **Normal operating schedule:**

   Hours per day: 10 **Days per week:** 5 **Weeks per year:** 52

   Peak production season (if any): Construction Season - April through October

5. **Materials (feed input) used in unit or process (include solid fuel materials used, if any):**

Material	Process Rate Average (lb/hr)	Maximum (lb/hr)	Quantity tons/year
Granite (secondary crushed and washed)	50 Tons per Hour	50 Tons/Hour	156,000

6. **Total heat input capacity of process heating equipment (exclude fuel used by indirect heating equipment previously described on ADEM Form 104):** n/a **MMBtu/hr**

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal		Btu/lb				
Fuel Oil		Btu/gal				
Natural Gas		Btu/ft^3				
L. P. Gas		Btu/ft^3				
Wood		Btu/lb				
Other (specify)						

7. **Products of process or unit:**

Products	Quantity/year	Units of production
Granite (washed)	156,000 tons per year	tons per hour

8. **For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):** Fugitive emissions from processing the granite will be controlled using wet suppression. Water will be primarily sourced/recycled from on-site stormwater management basins, and a quarry sump. Although not anticipated, should the water supply used for wet suppression be interrupted and temporarily unavailable, the crushing plant would shut down until the water source was again available. In addition, at least one person trained and certified in EPA Method 9 Visual Emissions will be on-site at all times during operation of the processing plant.

9. Is there any emission control equipment on this emission source?

☑ Yes ☐ No (Where a control device exists, ADEM Form 110 must be completed and attached).

10. Air contaminant emission points: (Each point of emission should be listed separately and numbered so that it can be located on the attached flow diagram):

Emission Point	Stack							
	UTM Coordinates		Height Above Grade (Feet)	Base Elevation (Feet)	Diameter (Feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)						
SS-1	660999.36	3619135.36	8	722				

* Std temperature is 68°F - Std pressure is 29.92" in Hg.

11. **Air contaminants emitted: Basis of estimate (material balance, stack test, emission factor, etc.) must be clearly indicated on calculations appended to this form. Fugitive emissions must be included and calculations must be appended.**

Emission Point	Pollutants	Potential Emissions (lb/hr)	Potential Emissions (Tons/yr)	Basis of Calculation	Regulatory Emission Limit (lb/hr)	Regulatory Emission Limit (units of standard)
SEE ATTACHED	EMISSION CALCULATIONS TABLES					

12. **Using a flow diagram:**

(1) **Illustrate input of raw materials,**

(2) **Label production processes, process fuel combustion, process equipment and air pollution control equipment,**

(3) **Illustrate locations of air contaminant release so that emission points under item 10 can be identified.**

☑ **(Check box if extra pages are attached)**
Process flow diagram

13. **Is this unit or process in compliance with all applicable air pollution rules and regulations?**

☑ Yes ☐ No

(if "no", a compliance schedule, ADEM Form 437 must be completed and attached.)

14. **Does the input material or product from this process or unit contain finely divided materials which could become airborne?**

☑ Yes ☐ No

15. **If "yes", is this material stored in piles or in some other facility as to make possible the creation of fugitive dust problems?**

☑ Yes ☐ No

List storage piles or other facility (if any):

Type of material	Particle size (diameter or screen size)	Pile size or facility (average tons)	Methods utilized to control fugitive emissions (wetted, covered, etc.)
CRUSHED GRANITE	1/8" X 0"	15,000	WET SUPPRESSION - WASHED ROCK

Name of person preparing application: Jeffrey Major

Signature: _____ **Date:** 12/04/2020

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

206 - 0051 - X001
Do not write in this space

1. **Name of firm or organization:** CreekWood Resources, LLC

2. **Briefly describe the operation of this unit or process in your facility: (separate forms are to be submitted for each type of process or for multiple units of one process type. If the unit or process receives input material from, or provides input material to, another operation, please indicate the relationship between the operations.) An application should be completed for each alternative operating scenario.**

   Operating scenario number 1

   Emission Point DH-1 - Primary Dump Hopper. Granite will be dumped from a CAT 980M or equivalent loader into the dump hopper. From the dump hopper, over sized material slides over the vibrating grizzly feeder (F-1) to the Primary Jaw Crusher (CR-1). Undersize material falls through the grizzly feeder onto conveyor C-1.

3. **Type of unit or process (e.g., calcining kiln, cupola furnace):** Primary Crushing Unit including Dump Hopper (DH-1), vibrating grizzly feeder (F-1), primary jaw crusher (CR-1), and 48" Primary Discharge Conveyor (C-1)

   Make: Cedar Rapids (made by Terex) **Model:** CRJ3255

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 300 Tons/Hr

   Manufactured date: 2018 **Proposed installation date:** Summer 2021

   Original installation date (if existing): n/a

   Reconstruction or Modification date (if applicable): n/a

4. **Normal operating schedule:**

   Hours per day: 10 **Days per week:** 5 **Weeks per year:** 52

   Peak production season (if any): Construction Season - April through October

5. **Materials (feed input) used in unit or process (include solid fuel materials used, if any):**

Material	Process Rate Average (lb/hr)	Maximum (lb/hr)	Quantity tons/year
Granite Shot Rock	300 Tons per Hour	300 Tons/Hour	936,000

6. **Total heat input capacity of process heating equipment (exclude fuel used by indirect heating equipment previously described on ADEM Form 104):** n/a **MMBtu/hr**

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal		Btu/lb				
Fuel Oil		Btu/gal				
Natural Gas		Btu/ft^3				
L. P. Gas		Btu/ft^3				
Wood		Btu/lb				
Other (specify)						

7. **Products of process or unit:**

Products	Quantity/year	Units of production
Granite	936,000 tons per year	tons per hour

8. **For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):** Fugitive emissions from processing the granite will be controlled using wet suppression. Water will be primarily sourced/recycled from on-site stormwater management basins, and a quarry sump. Although not anticipated, should the water supply used for wet suppression be interrupted and temporarily unavailable, the crushing plant would shut down until the water source was again available. In addition, at least one person trained and certified in EPA Method 9 Visual Emissions will be on-site at all times during operation of the processing plant.

9. Is there any emission control equipment on this emission source?

☑ Yes ☐ No (Where a control device exists, ADEM Form 110 must be completed and attached).

10. Air contaminant emission points: (Each point of emission should be listed separately and numbered so that it can be located on the attached flow diagram):

Emission Point	Stack							
	UTM Coordinates		Height Above Grade (Feet)	Base Elevation (Feet)	Diameter (Feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)						
DH-1	660999.36	3619135.36	10	722				

* Std temperature is 68°F - Std pressure is 29.92" in Hg.

11. **Air contaminants emitted: Basis of estimate (material balance, stack test, emission factor, etc.) must be clearly indicated on calculations appended to this form. Fugitive emissions must be included and calculations must be appended.**

Emission Point	Pollutants	Potential Emissions (lb/hr)	Potential Emissions (Tons/yr)	Basis of Calculation	Regulatory Emission Limit (lb/hr)	Regulatory Emission Limit (units of standard)
SEE ATTACHED	EMISSION CALCULATIONS TABLES					

12. **Using a flow diagram:**

(1) **Illustrate input of raw materials,**

(2) **Label production processes, process fuel combustion, process equipment and air pollution control equipment,**

(3) **Illustrate locations of air contaminant release so that emission points under item 10 can be identified.**

☑ **(Check box if extra pages are attached)**
Process flow diagram

13. **Is this unit or process in compliance with all applicable air pollution rules and regulations?**

☑ Yes ☐ No

(if "no", a compliance schedule, ADEM Form 437 must be completed and attached.)

14. **Does the input material or product from this process or unit contain finely divided materials which could become airborne?**

☑ Yes ☐ No

15. **If "yes", is this material stored in piles or in some other facility as to make possible the creation of fugitive dust problems?**

☑ Yes ☐ No

List storage piles or other facility (if any):

Type of material	Particle size (diameter or screen size)	Pile size or facility (average tons)	Methods utilized to control fugitive emissions (wetted, covered, etc.)
CRUSHED GRANITE	1 1/2" X 3/4"	15,000	WET SUPPRESSION
CRUSHED GRANITE	3/4" X 0"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1" X 1/8"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1/2" X 1/8"	15,000	WET SUPPRESSION
CRUSHED GRANITE	1/8" X 0"	15,000	WET SUPPRESSION

Name of person preparing application: Jeffrey Major

Signature: _____ **Date:** 12/04/2020

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

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Do not write in this space

1. **Name of firm or organization:** CreekWood Resources, LLC

2. **Briefly describe the operation of this unit or process in your facility: (separate forms are to be submitted for each type of process or for multiple units of one process type. If the unit or process receives input material from, or provides input material to, another operation, please indicate the relationship between the operations.) An application should be completed for each alternative operating scenario.**

   Operating scenario number 1

   Emission Point DH-2 Surge Bin. Crushed and screened granite is received from conveyors C-5 and C-7, and discharges into Crusher CR-2.

3. **Type of unit or process (e.g., calcining kiln, cupola furnace):** 15 Cu Yd Surge Bin

   Make: unbranded **Model:** 15 Cubic Yard

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 300 Tons/Hr

   Manufactured date: 2015 **Proposed installation date:** Summer 2021

   Original installation date (if existing): n/a

   Reconstruction or Modification date (if applicable): n/a

4. **Normal operating schedule:**

   Hours per day: 10 **Days per week:** 5 **Weeks per year:** 52

   Peak production season (if any): Construction Season - April through October

5. **Materials (feed input) used in unit or process (include solid fuel materials used, if any):**

Material	Process Rate Average (lb/hr)	Maximum (lb/hr)	Quantity tons/year
Crushed and Screened Granite	300 Tons per Hour	300 Tons/Hour	936,000

6. **Total heat input capacity of process heating equipment (exclude fuel used by indirect heating equipment previously described on ADEM Form 104):** n/a **MMBtu/hr**

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal		Btu/lb				
Fuel Oil		Btu/gal				
Natural Gas		Btu/ft^3				
L. P. Gas		Btu/ft^3				
Wood		Btu/lb				
Other (specify)						

7. **Products of process or unit:**

Products	Quantity/year	Units of production
Granite	936,000 tons per year	tons per hour

8. **For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):** Fugitive emissions from processing the granite will be controlled using wet suppression. Water will be primarily sourced/recycled from on-site stormwater management basins, and a quarry sump. Although not anticipated, should the water supply used for wet suppression be interrupted and temporarily unavailable, the crushing plant would shut down until the water source was again available. In addition, at least one person trained and certified in EPA Method 9 Visual Emissions will be on-site at all times during operation of the processing plant.

9. Is there any emission control equipment on this emission source?

☑ Yes ☐ No (Where a control device exists, ADEM Form 110 must be completed and attached).

10. Air contaminant emission points: (Each point of emission should be listed separately and numbered so that it can be located on the attached flow diagram):

Emission Point	Stack							
	UTM Coordinates		Height Above Grade (Feet)	Base Elevation (Feet)	Diameter (Feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)						
DH-2	660999.36	3619135.36	15	722				

* Std temperature is 68°F - Std pressure is 29.92" in Hg.

11. **Air contaminants emitted: Basis of estimate (material balance, stack test, emission factor, etc.) must be clearly indicated on calculations appended to this form. Fugitive emissions must be included and calculations must be appended.**

Emission Point	Pollutants	Potential Emissions (lb/hr)	Potential Emissions (Tons/yr)	Basis of Calculation	Regulatory Emission Limit (lb/hr)	Regulatory Emission Limit (units of standard)
SEE ATTACHED	EMISSION CALCULATIONS TABLES					

12. **Using a flow diagram:**

(1) **Illustrate input of raw materials,**

(2) **Label production processes, process fuel combustion, process equipment and air pollution control equipment,**

(3) **Illustrate locations of air contaminant release so that emission points under item 10 can be identified.**

☑ **(Check box if extra pages are attached)**
Process flow diagram

13. **Is this unit or process in compliance with all applicable air pollution rules and regulations?**

☑ Yes ☐ No

(if "no", a compliance schedule, ADEM Form 437 must be completed and attached.)

14. **Does the input material or product from this process or unit contain finely divided materials which could become airborne?**

☑ Yes ☐ No

15. **If "yes", is this material stored in piles or in some other facility as to make possible the creation of fugitive dust problems?**

☑ Yes ☐ No

List storage piles or other facility (if any):

Type of material	Particle size (diameter or screen size)	Pile size or facility (average tons)	Methods utilized to control fugitive emissions (wetted, covered, etc.)
CRUSHED GRANITE	1 1/2" X 3/4"	15,000	WET SUPPRESSION
CRUSHED GRANITE	3/4" X 0"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1" X 1/8"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1/2" X 1/8"	15,000	WET SUPPRESSION
CRUSHED GRANITE	1/8" X 0"	15,000	WET SUPPRESSION

Name of person preparing application: Jeffrey Major

Signature: _____ **Date:** 12/04/2020

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

206 - 0051 - X001
Do not write in this space

1. **Name of firm or organization:** CreekWood Resources, LLC

2. **Briefly describe the operation of this unit or process in your facility: (separate forms are to be submitted for each type of process or for multiple units of one process type. If the unit or process receives input material from, or provides input material to, another operation, please indicate the relationship between the operations.) An application should be completed for each alternative operating scenario.**

   Operating scenario number 1

   Emission Point F-1 Grizzly Feeder. Granite will be dumped from a CAT 980M or equivalent loader into the dump hopper (DH-1). From the dump hopper, over sized material slides over the vibrating grizzly feeder (F-1) to the Primary Jaw Crusher (CR-1). Undersize material falls through the grizzly feeder (F-1) onto conveyor C-1.

3. **Type of unit or process (e.g., calcining kiln, cupola furnace):** Primary Crushing Unit including dump hopper (DH-1), vibrating grizzly feeder (F-1), primary jaw crusher (CR-1), and 48" Primary Discharge Conveyor (C-1)

   Make: Cedar Rapids (made by Terex) **Model:** CRJ3255

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 300 Tons/Hr

   Manufactured date: 2018 **Proposed installation date:** Summer 2021

   Original installation date (if existing): n/a

   Reconstruction or Modification date (if applicable): n/a

4. **Normal operating schedule:**

   Hours per day: 10 **Days per week:** 5 **Weeks per year:** 52

   Peak production season (if any): Construction Season - April through October

5. **Materials (feed input) used in unit or process (include solid fuel materials used, if any):**

Material	Process Rate Average (lb/hr)	Maximum (lb/hr)	Quantity tons/year
Granite Shot Rock	300 Tons per Hour	300 Tons/Hour	936,000

6. **Total heat input capacity of process heating equipment (exclude fuel used by indirect heating equipment previously described on ADEM Form 104):** n/a **MMBtu/hr**

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal		Btu/lb				
Fuel Oil		Btu/gal				
Natural Gas		Btu/ft^3				
L. P. Gas		Btu/ft^3				
Wood		Btu/lb				
Other (specify)						

7. **Products of process or unit:**

Products	Quantity/year	Units of production
Granite	936,000 tons per year	tons per hour

8. **For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):** Fugitive emissions from processing the granite will be controlled using wet suppression. Water will be primarily sourced/recycled from on-site stormwater management basins, and a quarry sump. Although not anticipated, should the water supply used for wet suppression be interrupted and temporarily unavailable, the crushing plant would shut down until the water source was again available. In addition, at least one person trained and certified in EPA Method 9 Visual Emissions will be on-site at all times during operation of the processing plant.

9. Is there any emission control equipment on this emission source?

☑ Yes ☐ No (Where a control device exists, ADEM Form 110 must be completed and attached).

10. Air contaminant emission points: (Each point of emission should be listed separately and numbered so that it can be located on the attached flow diagram):

Emission Point	Stack							
	UTM Coordinates		Height Above Grade (Feet)	Base Elevation (Feet)	Diameter (Feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)						
F-1	660999.36	3619135.36	4	722				

* Std temperature is 68°F - Std pressure is 29.92" in Hg.

11. **Air contaminants emitted: Basis of estimate (material balance, stack test, emission factor, etc.) must be clearly indicated on calculations appended to this form. Fugitive emissions must be included and calculations must be appended.**

Emission Point	Pollutants	Potential Emissions (lb/hr)	Potential Emissions (Tons/yr)	Basis of Calculation	Regulatory Emission Limit (lb/hr)	Regulatory Emission Limit (units of standard)
SEE ATTACHED	EMISSION CALCULATIONS TABLES					

12. **Using a flow diagram:**

(1) **Illustrate input of raw materials,**

(2) **Label production processes, process fuel combustion, process equipment and air pollution control equipment,**

(3) **Illustrate locations of air contaminant release so that emission points under item 10 can be identified.**

☑ **(Check box if extra pages are attached)**
Process flow diagram

13. Is this unit or process in compliance with all applicable air pollution rules and regulations?

☑ Yes ☐ No

(if "no", a compliance schedule, ADEM Form 437 must be completed and attached.)

14. Does the input material or product from this process or unit contain finely divided materials which could become airborne?

☑ Yes ☐ No

15. If "yes", is this material stored in piles or in some other facility as to make possible the creation of fugitive dust problems?

☑ Yes ☐ No

List storage piles or other facility (if any):

Type of material	Particle size (diameter or screen size)	Pile size or facility (average tons)	Methods utilized to control fugitive emissions (wetted, covered, etc.)
CRUSHED GRANITE	1 1/2" X 3/4"	15,000	WET SUPPRESSION
CRUSHED GRANITE	3/4" X 0"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1" X 1/8"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1/2" X 1/8"	15,000	WET SUPPRESSION
CRUSHED GRANITE	1/8" X 0"	15,000	WET SUPPRESSION

Name of person preparing application: Jeffrey Major

Signature: _____ Date: 12/04/2020

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

2061 - 0051 - X001
Do not write in this space

1. **Name of firm or organization:** CreekWood Resources, LLC

2. **Briefly describe the operation of this unit or process in your facility: (separate forms are to be submitted for each type of process or for multiple units of one process type. If the unit or process receives input material from, or provides input material to, another operation, please indicate the relationship between the operations.) An application should be completed for each alternative operating scenario.**

Operating scenario number 1

Emission Point CR-1 Primary Jaw Crusher. Granite will be dumped from a CAT 980M or equivalent loader into the dump hopper (DH-1). From the dump hopper, over sized material slides over the vibrating grizzly feeder (F-1) to the Primary Jaw Crusher (CR-1). Undersize material falls through the grizzly feeder (F-1) onto conveyor C-1. Material passes through the primary Jaw Crusher (CR-1), is crushed and broken, and falls through onto conveyor C-1.

3. **Type of unit or process (e.g., calcining kiln, cupola furnace):** Primary Crushing Unit including dump hopper (DH-1), vibrating grizzly feeder (F-1), primary jaw crusher (CR-1), and 48" Primary Discharge Conveyor (C-1)

Make: Cedar Rapids (made by Terex) **Model:** CRJ3255

Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 300 Tons/Hr

Manufactured date: 2018 **Proposed installation date:** Summer 2021

Original installation date (if existing): n/a

Reconstruction or Modification date (if applicable): n/a

4. **Normal operating schedule:**

Hours per day: 10 **Days per week:** 5 **Weeks per year:** 52

Peak production season (if any): Construction Season - April through October

5. **Materials (feed input) used in unit or process (include solid fuel materials used, if any):**

Material	Process Rate Average (lb/hr)	Maximum (lb/hr)	Quantity tons/year
Granite Shot Rock	300 Tons per Hour	300 Tons/Hour	936,000

6. **Total heat input capacity of process heating equipment (exclude fuel used by indirect heating equipment previously described on ADEM Form 104):** n/a **MMBtu/hr**

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal		Btu/lb				
Fuel Oil		Btu/gal				
Natural Gas		Btu/ft^3				
L. P. Gas		Btu/ft^3				
Wood		Btu/lb				
Other (specify)						

7. **Products of process or unit:**

Products	Quantity/year	Units of production
Granite	936,000 tons per year	tons per hour

8. **For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):** Fugitive emissions from processing the granite will be controlled using wet suppression. Water will be primarily sourced/recycled from on-site stormwater management basins, and a quarry sump. Although not anticipated, should the water supply used for wet suppression be interrupted and temporarily unavailable, the crushing plant would shut down until the water source was again available. In addition, at least one person trained and certified in EPA Method 9 Visual Emissions will be on-site at all times during operation of the processing plant.

9. Is there any emission control equipment on this emission source?

☑ Yes ☐ No (Where a control device exists, ADEM Form 110 must be completed and attached).

10. Air contaminant emission points: (Each point of emission should be listed separately and numbered so that it can be located on the attached flow diagram):

Emission Point	Stack							
	UTM Coordinates		Height Above Grade (Feet)	Base Elevation (Feet)	Diameter (Feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)						
CR-1	660999.36	3619135.36	4	722				

* Std temperature is 68°F - Std pressure is 29.92" in Hg.

11. **Air contaminants emitted: Basis of estimate (material balance, stack test, emission factor, etc.) must be clearly indicated on calculations appended to this form. Fugitive emissions must be included and calculations must be appended.**

Emission Point	Pollutants	Potential Emissions (lb/hr)	Potential Emissions (Tons/yr)	Basis of Calculation	Regulatory Emission Limit (lb/hr)	Regulatory Emission Limit (units of standard)
SEE ATTACHED	EMISSION CALCULATIONS TABLES					

12. **Using a flow diagram:**

(1) **Illustrate input of raw materials,**

(2) **Label production processes, process fuel combustion, process equipment and air pollution control equipment,**

(3) **Illustrate locations of air contaminant release so that emission points under item 10 can be identified.**

☑ **(Check box if extra pages are attached)**
Process flow diagram

13. **Is this unit or process in compliance with all applicable air pollution rules and regulations?**

☑ Yes ☐ No

(if "no", a compliance schedule, ADEM Form 437 must be completed and attached.)

14. **Does the input material or product from this process or unit contain finely divided materials which could become airborne?**

☑ Yes ☐ No

15. **If "yes", is this material stored in piles or in some other facility as to make possible the creation of fugitive dust problems?**

☑ Yes ☐ No

List storage piles or other facility (if any):

Type of material	Particle size (diameter or screen size)	Pile size or facility (average tons)	Methods utilized to control fugitive emissions (wetted, covered, etc.)
CRUSHED GRANITE	1 1/2" X 3/4"	15,000	WET SUPPRESSION
CRUSHED GRANITE	3/4" X 0"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1" X 1/8"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1/2" X 1/8"	15,000	WET SUPPRESSION
CRUSHED GRANITE	1/8" X 0"	15,000	WET SUPPRESSION

Name of person preparing application: Jeffrey Major

Signature: _____ **Date:** 12/04/2020

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

206 - 0051 - X001
Do not write in this space

1. **Name of firm or organization:** CreekWood Resources, LLC

2. **Briefly describe the operation of this unit or process in your facility: (separate forms are to be submitted for each type of process or for multiple units of one process type. If the unit or process receives input material from, or provides input material to, another operation, please indicate the relationship between the operations.) An application should be completed for each alternative operating scenario.**

   Operating scenario number 1

   Emission Point CR-2 Secondary Crusher. Crushed granite is received from Surge Bin DH-1 and secondary crushed. The secondary crushed granite discharges onto conveyor C-6.

3. **Type of unit or process (e.g., calcining kiln, cupola furnace):** Secondary Crusher

   Make: Cedarapids (made by Terex) **Model:** MVP 450X S/C

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 300 Tons/Hr

   Manufactured date: 2013 **Proposed installation date:** Summer 2021

   Original installation date (if existing): n/a

   Reconstruction or Modification date (if applicable): n/a

4. **Normal operating schedule:**

   Hours per day: 10 **Days per week:** 5 **Weeks per year:** 52

   Peak production season (if any): Construction Season - April through October

5. **Materials (feed input) used in unit or process (include solid fuel materials used, if any):**

Material	Process Rate Average (lb/hr)	Maximum (lb/hr)	Quantity tons/year
Crushed and Screened Granite	300 Tons per Hour	300 Tons/Hour	936,000

6. **Total heat input capacity of process heating equipment (exclude fuel used by indirect heating equipment previously described on ADEM Form 104):** n/a **MMBtu/hr**

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal		Btu/lb				
Fuel Oil		Btu/gal				
Natural Gas		Btu/ft^3				
L. P. Gas		Btu/ft^3				
Wood		Btu/lb				
Other (specify)						

7. **Products of process or unit:**

Products	Quantity/year	Units of production
Granite	936,000 tons per year	tons per hour

8. **For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):** Fugitive emissions from processing the granite will be controlled using wet suppression. Water will be primarily sourced/recycled from on-site stormwater management basins, and a quarry sump. Although not anticipated, should the water supply used for wet suppression be interrupted and temporarily unavailable, the crushing plant would shut down until the water source was again available. In addition, at least one person trained and certified in EPA Method 9 Visual Emissions will be on-site at all times during operation of the processing plant.

9. Is there any emission control equipment on this emission source?

☑ Yes ☐ No (Where a control device exists, ADEM Form 110 must be completed and attached).

10. Air contaminant emission points: (Each point of emission should be listed separately and numbered so that it can be located on the attached flow diagram):

Emission Point	Stack							
	UTM Coordinates		Height Above Grade (Feet)	Base Elevation (Feet)	Diameter (Feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)						
CR-2	660999.36	3619135.36	4	722				

* Std temperature is 68°F - Std pressure is 29.92" in Hg.

11. **Air contaminants emitted: Basis of estimate (material balance, stack test, emission factor, etc.) must be clearly indicated on calculations appended to this form. Fugitive emissions must be included and calculations must be appended.**

Emission Point	Pollutants	Potential Emissions (lb/hr)	Potential Emissions (Tons/yr)	Basis of Calculation	Regulatory Emission Limit (lb/hr)	Regulatory Emission Limit (units of standard)
SEE ATTACHED	EMISSION CALCULATIONS TABLES					

12. **Using a flow diagram:**

(1) **Illustrate input of raw materials,**

(2) **Label production processes, process fuel combustion, process equipment and air pollution control equipment,**

(3) **Illustrate locations of air contaminant release so that emission points under item 10 can be identified.**

☑ **(Check box if extra pages are attached)**
Process flow diagram

13. Is this unit or process in compliance with all applicable air pollution rules and regulations?

☑ Yes ☐ No

(if "no", a compliance schedule, ADEM Form 437 must be completed and attached.)

14. Does the input material or product from this process or unit contain finely divided materials which could become airborne?

☑ Yes ☐ No

15. If "yes", is this material stored in piles or in some other facility as to make possible the creation of fugitive dust problems?

☑ Yes ☐ No

List storage piles or other facility (if any):

Type of material	Particle size (diameter or screen size)	Pile size or facility (average tons)	Methods utilized to control fugitive emissions (wetted, covered, etc.)
CRUSHED GRANITE	1 1/2" X 3/4"	15,000	WET SUPPRESSION
CRUSHED GRANITE	3/4" X 0"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1" X 1/8"	25,000	WET SUPPRESSION
CRUSHED GRANITE	1/2" X 1/8"	15,000	WET SUPPRESSION
CRUSHED GRANITE	1/8" X 0"	15,000	WET SUPPRESSION

Name of person preparing application: Jeffrey Major

Signature: _____ Date: 12/04/2020

ADEM

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

PERMIT APPLICATION

FOR

AIR POLLUTION CONTROL DEVICE

206 - 0051 - X001

(ADEM Use Only)

1. Name of firm or organization CreekWood Resources, LLC

2. Type of pollution control device: (if more than one, check each; however, separate forms are to be submitted for each specific device.)

- ☐ Settling chamber
- ☐ Afterburner
- ☐ Cyclone
- ☐ Absorber
- ☐ Condenser
- ☐ Electrostatic precipitator
- ☐ Baghouse
- ☐ Multiclone
- ☐ Adsorber
- ■ Wet Suppression

Wet scrubber (kind): _____

Stage 1 - Vapor balance (type): _____

Other (describe): _____

3. Control device manufacturer's information:

Name of manufacturer TBD Model No. TBD

4. Emission source to which device is installed or is to be installed:

Wet Suppression will be utilized throughout the facility for dust control

5. Emission parameters:

	Pollutants Removed		
	Pollutant #1	Pollutant #2	Pollutant #3
	Fugitive Dust		
Mass emission rate (#/hr)			
Uncontrolled	N/A		
Designed	N/A		
Manufacturer's guaranteed	N/A		
Mass emission rate (Expressed as units of standard)			
Required by regulation	N/A		
Manufacturer's guaranteed	N/A		
Removal efficiency (%)			
Designed	N/A		
Manufacturer's guaranteed	N/A		

6. Gas conditions:

	Inlet	Intermediate Locations	Outlet
Volume (SDCFM, 68°f, 29.92" hg)	N/A	N/A	N/A
(ACFM, existing conditions)	N/A	N/A	N/A
Temperature (°F)	N/A	N/A	N/A
Velocity (ft/sec)	N/A	N/A	N/A
Percent moisture	N/A	N/A	N/A

Pressure drop across device: N/A (inches H_20)

7. Stack dimensions:

UTM Coordinates (E-W) N/A ..... N/A (km)
UTM Coordinates (N-S) N/A ..... N/A (km)
Height above grade N/A ..... N/A (feet)
Inside diameter at exit (if opening is round) N/A ..... N/A (feet)
Inside area at exit (if opening is not round) N/A ..... N/A (sq. feet)
Base Elevation N/A ..... N/A (feet)
GEP Stack Height N/A ..... N/A (feet)

8. Provide a flow diagram which includes gas exit from process, each control device, location of by-pass, fan or blower, each emission point, exits for collected pollutants, and location of sampling ports.

See Attached Flow Diagram

9. Enclosed are:

☐ Blueprints
☐ Manufacturer's literature
☐ Emissions test of existing installation
☐ Particle size distribution report
☐ Size-efficiency curves
☐ Fan curves
■ Other Flow Diagram

10. If the pollution control device is of unusual design, please provide a sketch of the device.

11. List below the important operating parameters for the device. (For example: air/cloth ratio and fabric type, weight, and weave for baghouse; throat velocity and water use rate for a venturi scrubber; etc.)

Spray nozzle size to be determined

12. By-pass (if any) is to be used when:

not applicable

13. Disposal of collected air pollutants:

	Solid waste	Solid waste	Liquid waste	Liquid waste
Volume	TBD		TBD	
Composition	Granite		Granite	
Is waste hazardous?	No		No	
Method of disposal	No Disposal		No Disposal	
Final destination	sold with construction aggregate		sold with construction aggregate	

If collected air pollutants are recycled, describe:

Stone fines collected are typically placed into the base stockpile and sold

Name of person preparing application Jeffrey Major, Managing Member

Signature _____ Date 12/04/2020