PRECONSTRUCTION ANALYSIS
FOR
NORTH ALABAMA MATERIALS, INC.
712-0108
UNIT X001

North Alabama Materials, Inc., of Gurley, AL, has applied to the ADEM - Air Division for an Air Permit which would authorize the construction and operation of a limestone crushing, screening, and conveying circuit at the existing Lacey's Spring facility located at 8 NE Fields Road, Lacey's Spring, Morgan County. North Alabama Materials, Inc., is applying for an Air Permit for the following circuit:

X001 – 800 TPH Crushing, Screening, and Conveying Circuit with Wet Suppression (NSPS-OOO)

Process Description:

Aggregate material would be fed, by excavator or front end loader, into the feeder of the primary crushing, screening, and conveying circuit. Material would flow through the primary circuit where it will be distributed to different sized stockpiles or moved into the secondary impact crusher for further processing. Processed material from the secondary circuit would then be distributed to different sized stockpiles or moved into the tertiary circuit for the final processing. (See flow diagram in the application)

All equipment associated with this process is subject to either the State Implementation Plan (SIP) or the New Source Performance Standards (40 CFR Part 60, Subpart OOO-Standards of Performance for Nonmetallic Mineral Processing Plants). All equipment associated with circuit X001 manufactured on or after April 22, 2008, except the hopper/grizzly feeder, would be subject to NSPS – OOO. This 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 and shall be retained for a minimum of five years.

North Alabama Materials, Inc., will be required to conduct EPA Method 9 Visible Emissions Observations 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?*
Terex	Hopper (A1)	100 TPH	2022	SIP	No
Terex	Vibrating Grizzly Feeder (A2)	400 TPH	2022	SIP	No
Terex	Primary Jaw Crusher MJ55 (B)	800 TPH	2022	NSPS- 12%	Yes
MGL	Conveyor 48"x90' (C1)	800 TPH	2022	NSPS- 7%	Yes
Terex	SM620 Scalping Screen (D)	800 TPH	2022	NSPS- 7%	Yes
Terex	Underscreen Conveyor (D1) *Part of Screen D*	800 TPH	2022	NSPS- 7%	Yes
MGL	Radial Stacker 30"x100' (RS1)	400 TPH	2022	NSPS- 7%	Yes
MGL	Radial Stacker 30"x100' (RS2)	400 TPH	2022	NSPS- 7%	Yes
MGL	Transfer Conveyor 36"x100' (C2)	600 TPH	2022	NSPS- 7%	Yes
MGL	Radial Stacker 30"x100'(RS3)	400 TPH	2022	NSPS- 7%	Yes
MGL	Transfer Conveyor 48"x130' (C3)	800 TPH	2022	NSPS- 7%	Yes
Terex	Secondary Impact Crusher 1516 HSI (E)	800 TPH	2022	NSPS- 12%	Yes
MGL	Transfer Conveyor 48"x80' (C4)	800 TPH	2022	NSPS- 7%	Yes
Terex	Splitter Box (F)	800 TPH	2022	NSPS- 7%	Yes
MGL	Transfer Conveyor 36"x100' (C5)	800 TPH	2022	NSPS- 7%	Yes
MGL	Transfer Conveyor 36"x100' (C6)	800 TPH	2022	NSPS- 7%	Yes
Terex	LJ-TSV8203 Screen (G)	400 TPH	2022	NSPS- 7%	Yes
Terex	Underscreen Conveyor (G1) *Part of Screen G*	800 TPH	2022	NSPS- 7%	Yes
Terex	LJ-TSV8203 Screen (H)	400 TPH	2022	NSPS- 7%	Yes
Terex	Underscreen Conveyor (H1) *Part of Screen H*	800 TPH	2022	NSPS- 7%	Yes
MGL	Transfer Conveyor 36"x60' (C7)	800 TPH	2022	NSPS- 7%	Yes
MGL	Transfer Conveyor 36"x60' (C8)	800 TPH	2022	NSPS- 7%	Yes

MGL	Transfer Conveyor 36"x60' (C9)	800 TPH	2022	NSPS- 7%	Yes
MGL	Transfer Conveyor 36"x60' (C10)	800 TPH	2022	NSPS- 7%	Yes
MGL	Transfer Conveyor 36"x60' (C11)	800 TPH	2022	NSPS- 7%	Yes
Terex	Splitter Box (I)	800 TPH	2022	NSPS- 7%	Yes
MGL	Transfer Conveyor 36"x60' (C12)	800 TPH	2022	NSPS- 7%	Yes
MGL	Transfer Conveyor 36"x60' (C13)	800 TPH	2022	NSPS- 7%	Yes
Lippman	Tertiary Impact Crusher LI 5165S(J)	380 TPH	2020	NSPS- 12%	Yes
MGL	Transfer Conveyor 36"x60' (C14)	800 TPH	2022	NSPS- 7%	Yes
Lippman	L820S Screen (K)	400 TPH	2020	NSPS- 7%	Yes
MGL	Transfer Conveyor 36"x60' (C15)	800 TPH	2022	NSPS- 7%	Yes
MGL	Transfer Conveyor 36"x60' (C16)	800 TPH	2022	NSPS- 7%	Yes
MGL	Transfer Conveyor 36"x60' (C17)	800 TPH	2022	NSPS- 7%	Yes
MGL	Transfer Conveyor 36"x60' (C18)	800 TPH	2022	NSPS- 7%	Yes
MGL	Radial Stacker 30"x100' (RS4)	400 TPH	2022	NSPS- 7%	Yes
MGL	Radial Stacker 30"x100' (RS5)	400 TPH	2022	NSPS- 7%	Yes
MGL	Radial Stacker 30"x100' (RS6)	400 TPH	2022	NSPS- 7%	Yes
MGL	Radial Stacker 30"x100' (RS7)	400 TPH	2022	NSPS- 7%	Yes
MGL	Radial Stacker 30"x100' (RS8)	400 TPH	2022	NSPS- 7%	Yes
MGL	Radial Stacker 30"x100' (RS9)	400 TPH	2022	NSPS- 7%	Yes

The total expected fugitive emissions rate for the proposed plant would be **25.75 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 emission 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 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, would not be required to undergo the PSD process. This site is not considered a Greenfield, but North Alabama Materials, Inc., would be required to complete a 30-day public comment period, a joint public notice with the Water Division.

ADEM utilized the EJSCREEN screening tool to perform an analysis of the area. Please refer to Appendix D.

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 North Alabama Materials. Inc., incorporating the provisions of Appendix B and Appendix C, the cover letter.

Ramie Pope

Ramie Pope
Energy Branch
Air Division

September 2, 2022
Date

Appendix A
CALCULATIONS
NORTH ALABAMA MATERIALS, INC.
712-0108
UNIT X001

X001 - 800 TPH Crushing, Screening, and Conveying Circuit with Wet Suppression (NSPS-OOO).

Equipment: 3 Crushers, 6 Screens (including 2 Splitter Boxes), and 32 Associated Belt Conveyors (including 1 Feeder and 1 Dump Hopper)

Hours of Operation: 11 hrs/day x 5.5 days/wk x 50 wks/yr = 3,025 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**
Capacity	**800**	**TPH**				
Total (# TPH * EF# lb/Ton)		lb/hr	4.32	1.92	0.96	0.432
	8760	hrs/yr				
Total (#lb/hr*#hrs/yr*(1/2000)Ton/lbs)		TPY	18.9216	8.4096	4.2048	1.89216
	3025	hrs/yr				
Expected (#lb/hr*exp#hrs/yr*(1/2000)Ton/lbs)		TPY	6.534	2.904	1.452	0.6534
Screening Emission Factor		**lb/Ton**	**0.025**	**0.0087**	**0.0022**	**0.00074**
Capacity	**800**	**TPH**				
Total (# TPH * EF# lb/Ton)		lb/hr	20	6.96	1.76	0.592
	8760	hrs/yr				
Total (#lb/hr*#hrs/yr*1/2000Ton/lbs)		TPY	87.6	30.4848	7.7088	2.59296
	3025	hrs/yr				
Expected (#lb/hr*exp#hrs/yr*1/2000Ton/lbs)		TPY	30.25	10.527	2.662	0.8954
Conveying/ Transfer Point Emission Factor		**lb/Ton**	**0.003**	**0.0011**	**0.00014**	**0.000046**
Capacity	**800**	**TPH**				
Total (# TPH * EF# lb/Ton)		lb/hr	2.4	0.88	0.112	0.0368
	8760	hrs/yr				
Total (#lb/hr*#hrs/yr*1/2000Ton/lbs)		TPY	10.512	3.8544	0.49056	0.161184
	3025	hrs/yr				
Expected (#lb/hr*exp#hrs/yr*1/2000Ton/lbs)		TPY	3.63	1.331	0.1694	0.05566

Total Uncontrolled Emissions:

Crushing	18.92 TPY x 3 Crushers = 56.76 TPY
Screening	87.6 TPY x 6 Screens = 525.6 TPY
Conveying	10.51 TPY x 32 Conveyors = 336.32 TPY
Total	918.68 TPY at 8760 hrs/yr

Total Controlled Emissions:

Crushing	4.2 TPY x 3 Crushers = 12.6 TPY
Screening	7.7 TPY x 6 Screens = 46.2 TPY
Conveying	0.49 TPY x 32 Conveyors = 15.68 TPY
Total	74.48 TPY at 8760 hrs/yr

Expected Emissions: Based on 3,025 Actual Hours of Operation and the AP-42 total particulate controlled emission factor.

Crushing	1.45 TPY x 3 Crushers = 4.35 TPY
Screening	2.66 TPY x 6 Screens = 15.96 TPY
Conveying	0.17 TPY x 32 Conveyors = 5.44 TPY
Total	25.75 TPY at 3025 hrs/yr

Appendix B
North Alabama Materials, Inc.
Morgan County, Alabama
Permit No. 712-0108-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. 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.

5. 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 shut down 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.

6. 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.

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

8. 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.

9. 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)

10. 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.

11. 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.

12. 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.

13. 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.

14. 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.

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

16. 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.

17. 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.

18. 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.

19. All equipment associated with this process is subject to either the State Implementation Plan (SIP) or the New Source Performance Standards (40 CFR Part 60, Subpart OOO-Standards of Performance for Nonmetallic Mineral Processing Plants). All NSPS – Subpart OOO equipment will be subject to the limitations and opacity limits for fugitive emissions according to the applicability date of 40 CFR Part 60, Subpart OOO that is specific to the equipment. This NSPS limits fugitive emissions from uncontrolled crushers to 12% opacity, and fugitive emissions from grinding mills, screening operations, bucket elevators, transfer points on belt conveyors, bagging operations, storage bins, enclosed truck or railcar loading stations, or from any other affected facility to 7 % opacity. This NSPS allows no emissions from wet screening operations.

20. 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 required performance testing 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 test reports will be submitted to the Department within 15 days of the test date.

21. 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.

22. 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 expeditiously as possible.

23. 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.

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

25. 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.

26. 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.

_____

Date

ADEM
Alabama Department of Environmental Management

AIR PERMIT

PERMITTEE: NORTH ALABAMA MATERIALS, INC.

FACILITY NAME: LACEY'S SPRING QUARRY

LOCATION: MORGAN COUNTY, ALABAMA

PERMIT NUMBER	DESCRIPTION OF EQUIPMENT, ARTICLE OR DEVICE
712-0108-X001	800 TPH Crushing, Screening, and Conveying Circuit with Wet Suppression (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

Appendix C

[Date]

Mr. Darrin K. Isbell
North Alabama Materials, Inc.
1311 Salty Bottom Road
Gurley, AL 35748

Dear Mr. Isbell:

RE: Facility No. 712-0108
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 Ramie Pope at (334) 274-4187 in Montgomery.

Sincerely,

Ronald W. Gore, Chief
Air Division

RWG/drp

Enclosures

Appendix D

EJScreen Report (Version 2.0)

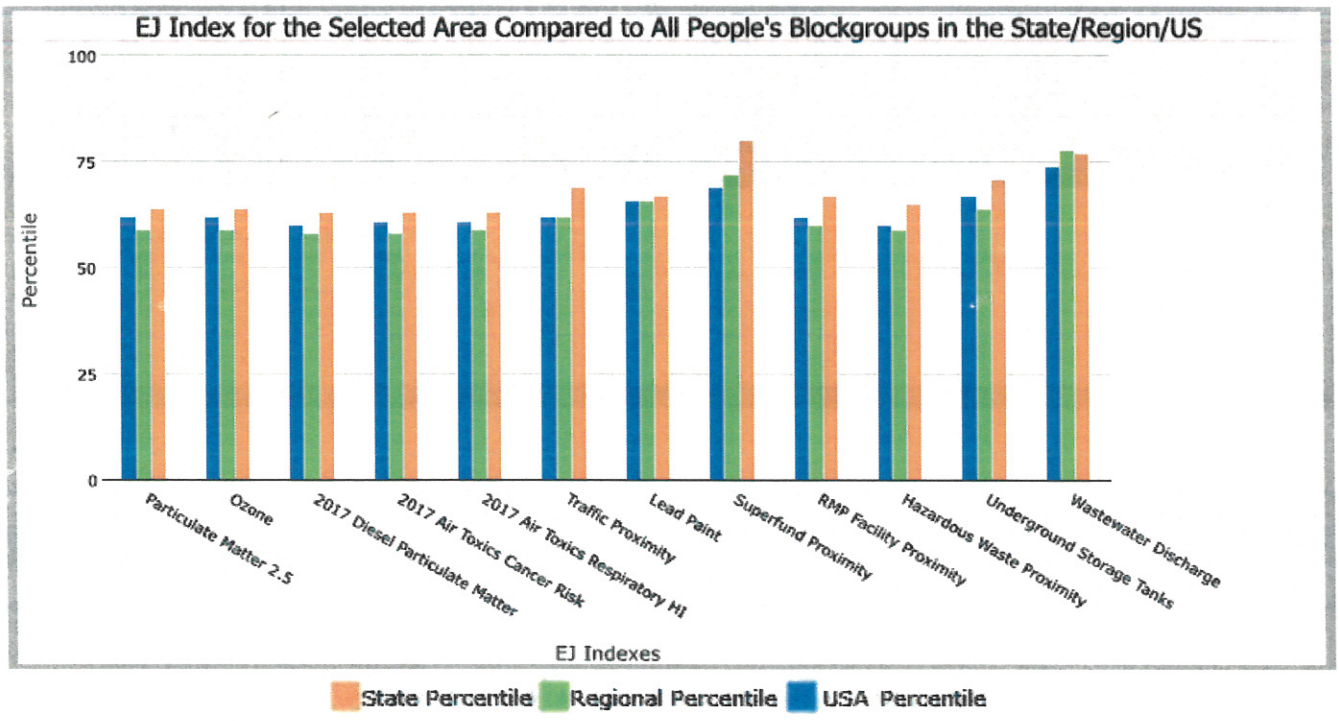
1 mile Ring Centered at 34.559737,-86.612338, ALABAMA, EPA Region 4

Approximate Population: 656

Input Area (sq. miles): 3.14

North Alabama Materials, Inc.

Selected Variables	State Percentile	EPA Region Percentile	USA Percentile
Environmental Justice Indexes			
EJ Index for Particulate Matter 2.5	64	59	62
EJ Index for Ozone	64	59	62
EJ Index for 2017 Diesel Particulate Matter*	63	58	60
EJ Index for 2017 Air Toxics Cancer Risk*	63	58	61
EJ Index for 2017 Air Toxics Respiratory HI*	63	59	61
EJ Index for Traffic Proximity	69	62	62
EJ Index for Lead Paint	67	66	66
EJ Index for Superfund Proximity	80	72	69
EJ Index for RMP Facility Proximity	67	60	62
EJ Index for Hazardous Waste Proximity	65	59	60
EJ Index for Underground Storage Tanks	71	64	67
EJ Index for Wastewater Discharge	77	78	74



This report shows the values for environmental and demographic indicators and EJSCREEN indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.

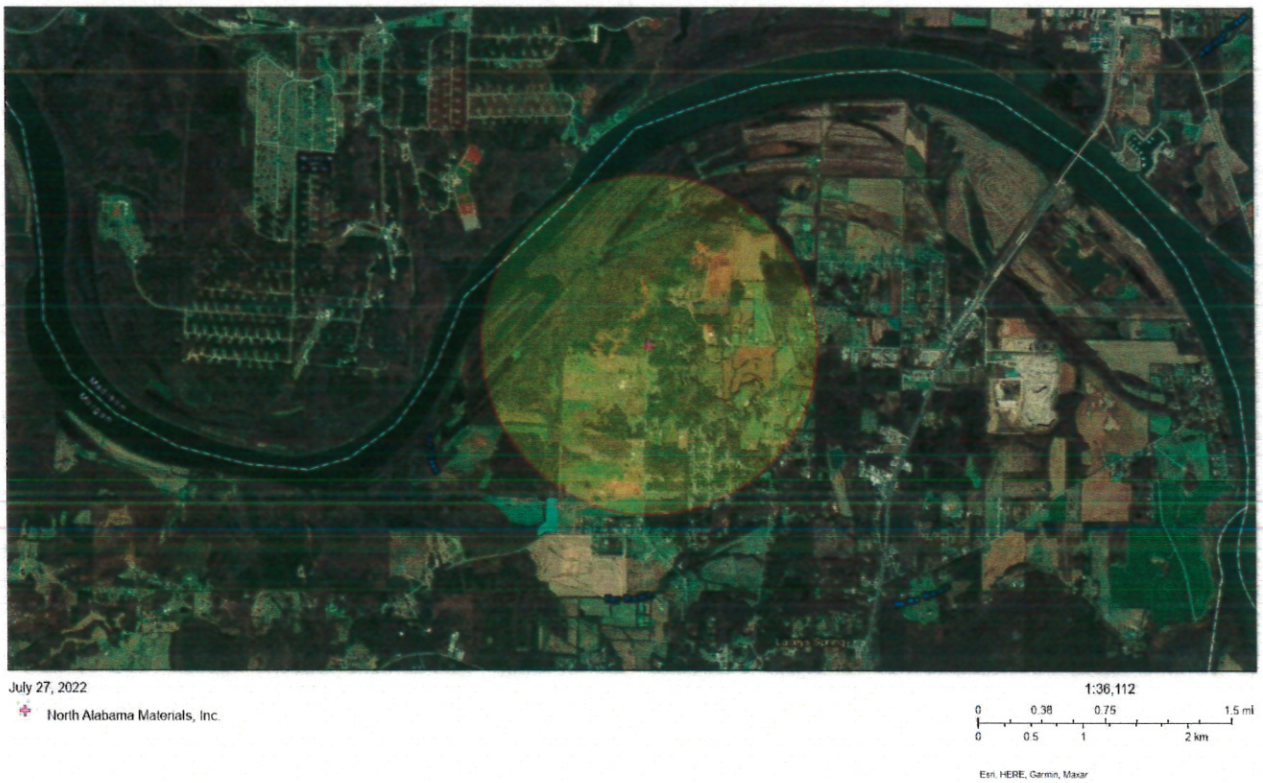
EJScreen Report (Version 2.0)

1 mile Ring Centered at 34.559737,-86.612338, ALABAMA, EPA Region 4

Approximate Population: 656

Input Area (sq. miles): 3.14

North Alabama Materials, Inc.



Sites reporting to EPA	
Superfund NPL	0
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	0

EJScreen Report (Version 2.0)

1 mile Ring Centered at 34.559737,-86.612338, ALABAMA, EPA Region 4

Approximate Population: 656

Input Area (sq. miles): 3.14

North Alabama Materials, Inc.

Selected Variables	Value	State Avg.	%ile in State	EPA Region Avg.	%ile in EPA Region	USA Avg.	%ile in USA
Pollution and Sources							
Particulate Matter 2.5 (µg/m³)	8.55	8.9	26	8.18	65	8.74	48
Ozone (ppb)	42.2	39.1	84	37.9	77	42.6	49
2017 Diesel Particulate Matter* (µg/m³)	0.134	0.216	33	0.261	<50th	0.295	<50th
2017 Air Toxics Cancer Risk* (lifetime risk per million)	30	34	55	31	80-90th	29	80-90th
2017 Air Toxics Respiratory HI*	0.4	0.47	38	0.4	70-80th	0.36	80-90th
Traffic Proximity (daily traffic count/distance to road)	140	230	63	430	51	710	40
Lead Paint (% Pre-1960 Housing)	0.1	0.18	48	0.15	58	0.28	40
Superfund Proximity (site count/km distance)	0.18	0.054	96	0.083	90	0.13	84
RMP Facility Proximity (facility count/km distance)	0.26	0.41	65	0.6	52	0.75	45
Hazardous Waste Proximity (facility count/km distance)	0.17	0.83	34	0.62	43	2.2	27
Underground Storage Tanks (count/km²)	1.2	1.7	65	3.5	52	3.9	49
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.0019	0.42	61	0.45	68	12	55
Socioeconomic Indicators							
Demographic Index	38%	36%	64	37%	59	36%	61
People of Color	17%	34%	34	39%	29	40%	31
Low Income	60%	37%	86	35%	87	31%	89
Unemployment Rate	4%	6%	42	6%	42	5%	45
Linguistically Isolated	10%	1%	97	3%	88	5%	83
Less Than High School Education	43%	14%	99	13%	98	12%	97
Under Age 5	18%	6%	99	6%	99	6%	99
Over Age 64	20%	17%	70	17%	71	16%	73

*Diesel particular matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's 2017 Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: https://www.epa.gov/haps/air-toxics-data-update.

For additional information, see: www.epa.gov/environmentaljustice

EJScreen Report (Version 2.0)

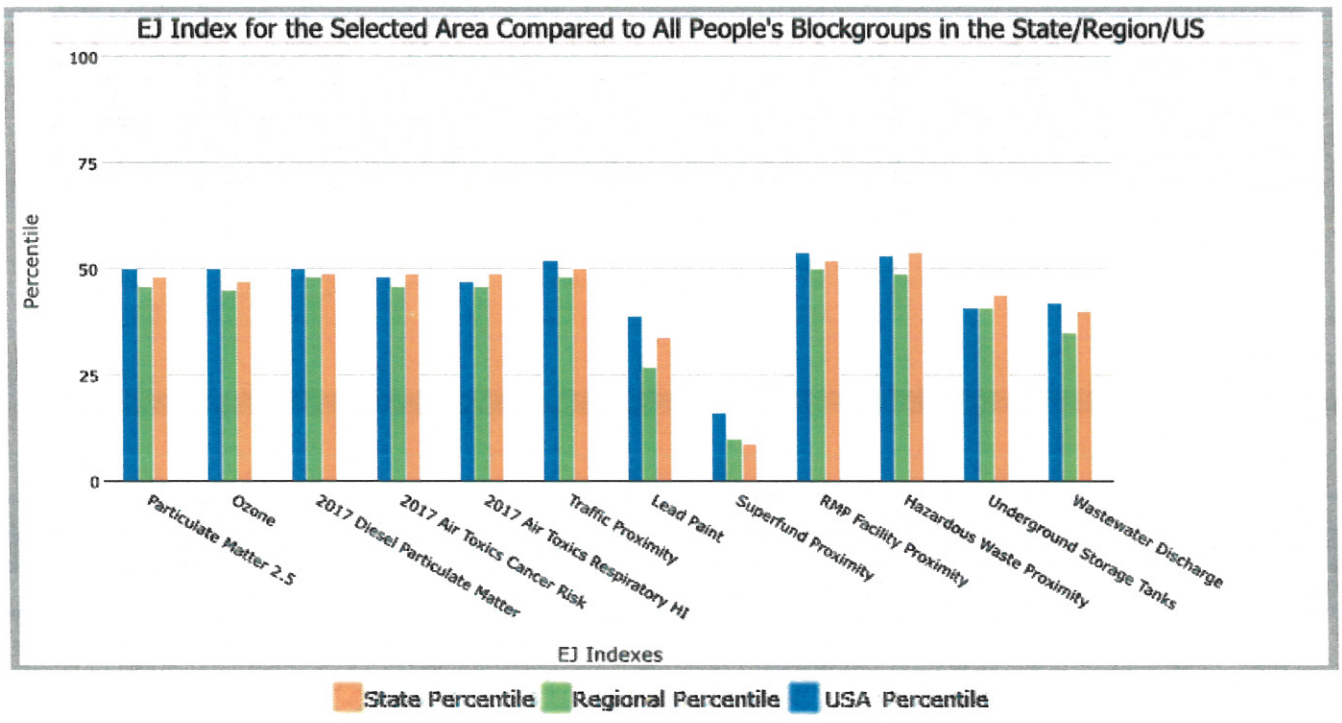
3 miles Ring Centered at 34.559737,-86.612338, ALABAMA, EPA Region 4

Approximate Population: 2,612

Input Area (sq. miles): 28.27

North Alabama Materials, Inc.

Selected Variables	State Percentile	EPA Region Percentile	USA Percentile
Environmental Justice Indexes			
EJ Index for Particulate Matter 2.5	48	46	50
EJ Index for Ozone	47	45	50
EJ Index for 2017 Diesel Particulate Matter*	49	48	50
EJ Index for 2017 Air Toxics Cancer Risk*	49	46	48
EJ Index for 2017 Air Toxics Respiratory HI*	49	46	47
EJ Index for Traffic Proximity	50	48	52
EJ Index for Lead Paint	34	27	39
EJ Index for Superfund Proximity	9	10	16
EJ Index for RMP Facility Proximity	52	50	54
EJ Index for Hazardous Waste Proximity	54	49	53
EJ Index for Underground Storage Tanks	44	41	41
EJ Index for Wastewater Discharge	40	35	42



This report shows the values for environmental and demographic indicators and EJSCREEN indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.

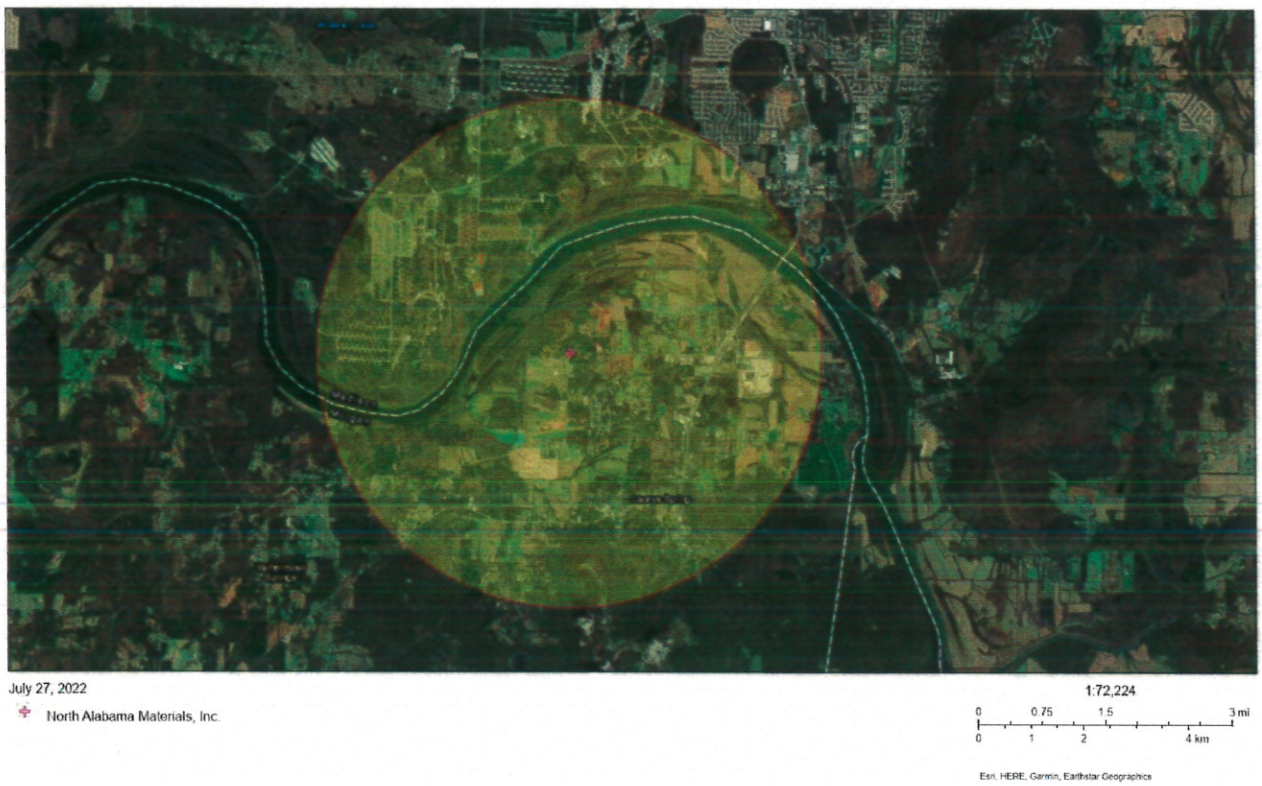
EJScreen Report (Version 2.0)

3 miles Ring Centered at 34.559737,-86.612338, ALABAMA, EPA Region 4

Approximate Population: 2,612

Input Area (sq. miles): 28.27

North Alabama Materials, Inc.



Sites reporting to EPA	
Superfund NPL	0
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	0

EJScreen Report (Version 2.0)

3 miles Ring Centered at 34.559737,-86.612338, ALABAMA, EPA Region 4

Approximate Population: 2,612

Input Area (sq. miles): 28.27

North Alabama Materials, Inc.

Selected Variables	Value	State Avg.	%ile in State	EPA Region Avg.	%ile in EPA Region	USA Avg.	%ile in USA
Pollution and Sources							
Particulate Matter 2.5 ($\mu g/m^3$)	8.55	8.9	26	8.18	65	8.74	48
Ozone (ppb)	42.2	39.1	84	37.9	77	42.6	49
2017 Diesel Particulate Matter* ($\mu g/m^3$)	0.134	0.216	33	0.261	<50th	0.295	<50th
2017 Air Toxics Cancer Risk* (lifetime risk per million)	30	34	55	31	80-90th	29	80-90th
2017 Air Toxics Respiratory HI*	0.4	0.47	38	0.4	70-80th	0.36	80-90th
Traffic Proximity (daily traffic count/distance to road)	110	230	57	430	45	710	35
Lead Paint (% Pre-1960 Housing)	0.12	0.18	54	0.15	63	0.28	43
Superfund Proximity (site count/km distance)	0.22	0.054	97	0.083	92	0.13	87
RMP Facility Proximity (facility count/km distance)	0.22	0.41	59	0.6	47	0.75	40
Hazardous Waste Proximity (facility count/km distance)	0.14	0.83	30	0.62	36	2.2	22
Underground Storage Tanks (count/km^2)	0.98	1.7	60	3.5	48	3.9	45
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.0016	0.42	60	0.45	67	12	53
Socioeconomic Indicators							
Demographic Index	32%	36%	52	37%	48	36%	53
People of Color	15%	34%	31	39%	26	40%	28
Low Income	49%	37%	72	35%	75	31%	79
Unemployment Rate	4%	6%	47	6%	46	5%	49
Linguistically Isolated	6%	1%	93	3%	81	5%	73
Less Than High School Education	32%	14%	94	13%	95	12%	92
Under Age 5	11%	6%	91	6%	92	6%	91
Over Age 64	20%	17%	71	17%	71	16%	74

*Diesel particular matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's 2017 Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: https://www.epa.gov/haps/air-toxics-data-update.

For additional information, see: www.epa.gov/environmentaljustice

EJScreen Report (Version 2.0)

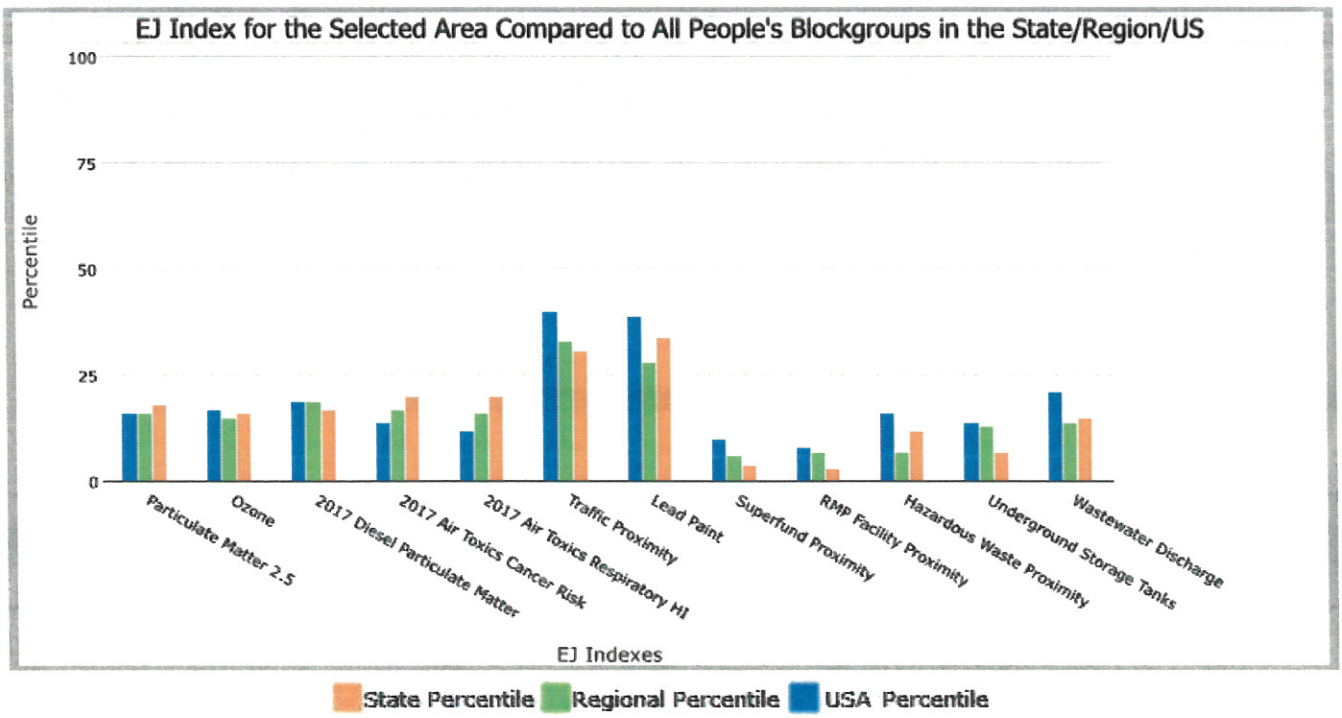
5 miles Ring Centered at 34.559737,-86.612338, ALABAMA, EPA Region 4

Approximate Population: 15,728

Input Area (sq. miles): 78.53

North Alabama Materials, Inc.

Selected Variables	State Percentile	EPA Region Percentile	USA Percentile
Environmental Justice Indexes			
EJ Index for Particulate Matter 2.5	18	16	16
EJ Index for Ozone	16	15	17
EJ Index for 2017 Diesel Particulate Matter*	17	19	19
EJ Index for 2017 Air Toxics Cancer Risk*	20	17	14
EJ Index for 2017 Air Toxics Respiratory HI*	20	16	12
EJ Index for Traffic Proximity	31	33	40
EJ Index for Lead Paint	34	28	39
EJ Index for Superfund Proximity	4	6	10
EJ Index for RMP Facility Proximity	3	7	8
EJ Index for Hazardous Waste Proximity	12	7	16
EJ Index for Underground Storage Tanks	7	13	14
EJ Index for Wastewater Discharge	15	14	21



This report shows the values for environmental and demographic indicators and EJSCREEN indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.

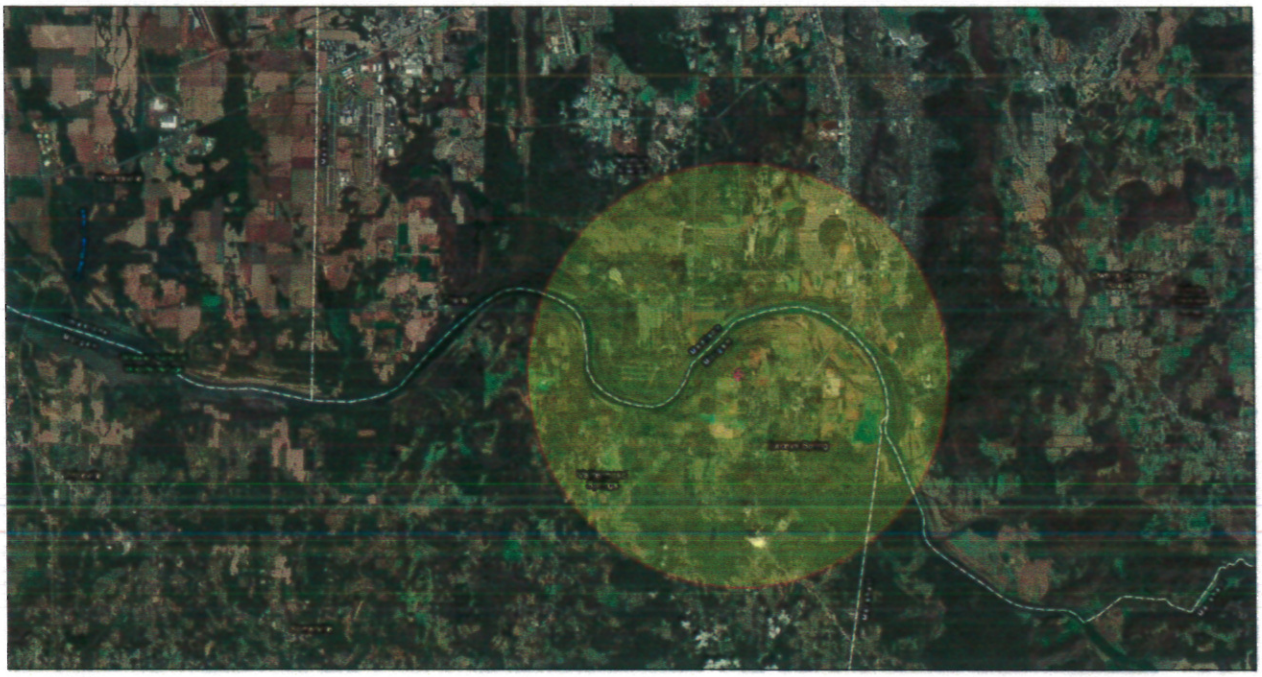
EJScreen Report (Version 2.0)

5 miles Ring Centered at 34.559739,-86.612338, ALABAMA, EPA Region 4

Approximate Population: 15,728

Input Area (sq. miles): 78.53

North Alabama Materials, Inc.



Sites reporting to EPA	
Superfund NPL	0
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	1

EJScreen Report (Version 2.0)

5 miles Ring Centered at 34.559737,-86.612338, ALABAMA, EPA Region 4

Approximate Population: 15,728

Input Area (sq. miles): 78.53

North Alabama Materials, Inc.

Selected Variables	Value	State Avg.	%ile in State	EPA Region Avg.	%ile in EPA Region	USA Avg.	%ile in USA
Pollution and Sources							
Particulate Matter 2.5 (µg/m³)	8.54	8.9	25	8.18	65	8.74	47
Ozone (ppb)	42.4	39.1	87	37.9	80	42.6	51
2017 Diesel Particulate Matter* (µg/m³)	0.189	0.216	55	0.261	<50th	0.295	<50th
2017 Air Toxics Cancer Risk* (lifetime risk per million)	30	34	55	31	80-90th	29	80-90th
2017 Air Toxics Respiratory HI*	0.4	0.47	38	0.4	70-80th	0.36	80-90th
Traffic Proximity (daily traffic count/distance to road)	120	230	58	430	47	710	36
Lead Paint (% Pre-1960 Housing)	0.059	0.18	33	0.15	45	0.28	31
Superfund Proximity (site count/km distance)	0.13	0.054	93	0.083	85	0.13	75
RMP Facility Proximity (facility count/km distance)	0.58	0.41	79	0.6	69	0.75	63
Hazardous Waste Proximity (facility count/km distance)	0.7	0.83	61	0.62	74	2.2	49
Underground Storage Tanks (count/km²)	1.6	1.7	70	3.5	57	3.9	54
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.0023	0.42	63	0.45	70	12	57
Socioeconomic Indicators							
Demographic Index	24%	36%	34	37%	32	36%	38
People of Color	18%	34%	36	39%	31	40%	33
Low Income	29%	37%	38	35%	43	31%	53
Unemployment Rate	3%	6%	37	6%	37	5%	39
Linguistically Isolated	2%	1%	83	3%	67	5%	60
Less Than High School Education	11%	14%	44	13%	50	12%	57
Under Age 5	6%	6%	53	6%	53	6%	52
Over Age 64	18%	17%	60	17%	63	16%	66

*Diesel particular matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's 2017 Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: https://www.epa.gov/haps/air-toxics-data-update.

For additional information, see: www.epa.gov/environmentaljustice

ADEM
Alabama Department of Environmental Management

CHECKLIST FOR ISSUANCE OF PERMITS

Permit No. 712-0108-X001 Type: Air

Company North Alabama Materials, Inc. – Lacey's Spring Quarry

Location Lacey's Spring (Morgan County)

Description of Permit Unit: X001 – 800 TPH Crushing, Screening, and Conveying Circuit with Wet Suppression (NSPS - OOO)

Pollutant Type:

Particulates	**01**	Nitrogen Oxides	**05**	Chlorine	**09**
Sulfur Oxides	**02**	Total Reduced Sulfur	**06**	Hydrogen Sulfide	**10**
Carbon Monoxide	**03**	Asbestos	**07**	Lead	**11**
Hydrocarbons	**04**	Beryllium	**08**	Mercury	**12**

Pollutant Type	Reported Emissions lb/hr	Method Of Estimate	Uncontrolled Emissions lb/hr	Controlled Emissions lb/hr	Allowable Emissions lb/hr
See Preconstruction Analysis					

Operating Hours Per Year: 3,025

Provisos: See Preconstruction Analysis

Mail To:

Mr. Darrin K. Isbell
North Alabama Materials, Inc.
1311 Salty Bottom Road
Gurley, AL 35748

Engineer: **R. Pope**
Date:

Type: PSD ____ SMS ____ NAME ____ MOD ____ TEMP ____ OTHER **X**
Source: NSPS **X** NESHAP ____ SIP **X** OTHER ____

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (AIR DIVISION)

Do not Write in This Space

Facility Number 712 - 0108

CONSTRUCTION/OPERATING PERMIT APPLICATION
FACILITY IDENTIFICATION FORM

1. Name of Facility, Firm, or Institution: North Alabama Materials - Lacey's Spring Quarry

Facility Physical Location Address

Street & Number: 8 NE Fields Rd

City: Lacey's Spring County: Morgan Zip: 35754

Facility Mailing Address (If different from above)

Address or PO Box: TBD

City: Lacey's Spring State: AL Zip: 35754

Owner's Business Mailing Address

2. Owner: North Alabama Materials

Street & Number: 6620 Hwy 72 E City: Gurley

State: AL Zip: 35748 Telephone: 256-776-3782

Responsible Official's Business Mailing Address

3. Responsible Official: Darrin K. Isbell Title: President

Street & Number: 1311 Salty Bottom Rd

City: Gurley State: AL Zip: 35748

Telephone Number: 256-776-2713 E-mail Address: deborahsisbell@yahoo.com

Plant Contact Information

4. Plant Contact: Lance Green Title: Plant Manager

Telephone Number: 256-550-4261 E-mail Address: lancerg88@gmail.com

5. Location Coordinates:

UTM 34.559645 E-W -86.612503 N-S

Latitude/Longitude 34°33'34.7220" LAT -86°36'45.0108" LONG

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

- ☐ Existing source (initial application)
- ☐ Existing source (permit renewal)
- ☐ Modification
- ■ New source (to be constructed)
- ☐ Change of ownership
- ☐ Change of location
- ☐ Other (specify) _____

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

North Alabama Materials - Lance Green

256-776-3782 **Telephone** 256-550-4261

Date construction/modification to begin 7/2022 **to be completed** 8/2022

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

- ■ 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.**

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

212312 - Crushed and broken limestone mining and quarrying

10. For those making application for a synthetic minor or major source operating permit, please summarize each pollutant emitted and the potential facility-wide annual 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. N/A

b.

c.

d.

e.

f.

g.

h.

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.

Lance Green — Digitally signed by Lance Green Date: 2022.05.19 10:08:08 -05'00'

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

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

			-					-				

Do not write in this space

1. **Name of facility or organization:** North Alabama Materials Lacey's Spring Quarry

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 1A

100 ton Rock ~~box~~ hopper (A1) will be fed by Truck, loader, or excavator.

3. **Type of unit or process (e.g., calcining kiln, cupola furnace):** 100 ton rock hopper

Make: Terex **Model:** NA

Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 800 TPH

Manufactured date: 2022 **Proposed installation date:** 12/2022

Original installation date (if existing):

Reconstruction or Modification date (if applicable):

4. **Normal operating schedule:**

Hours per day: 11 **Days per week:** 5.5 **Weeks per year:** 50

Peak production season (if any): Spring & Summer

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
Limestone	400 TPH	800 TPH	1,200,000

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

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal	N/A	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
Limestone	1,200,000	tons

8. For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):
N/A

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		Geographic Coordinates		Height Above Grade (Feet)	GEP Stack Height (Feet)	Base Elevation (Feet)	Inside Diameter for Round Opening (Feet)	Inside Area if NOT Round Opening (sq. feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)	LAT	LONG								
	Fugitive	emissions										

* 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			Regulatory Emission Limit	
		(lb/hr)	(Tons/yr)	Basis of Calculation	(lb/hr)	(units of standard)
1A	PM	1.78	2.94	AP-42		7%

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.)
Limestone	24"-Dust	500	Wetted

Name of person preparing application: Lance Green

Signature: Lance Green Digitally signed by Lance Green Date: 2022.05.19 13:52:35 -05'00' Date:

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

[ ][ ][ ] - [ ][ ][ ][ ] - [ ][ ][ ][ ]
Do not write in this space

1. **Name of facility or organization:** North Alabama Materials Lacey's Spring Quarry

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 ~~15~~ A2 ARP

   Limestone rock will be fed by a vibrating grizzly feeder (A2) from the rock box (A1) to the jaw crusher(B).

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

   Make: Terex **Model:** GF 52"x 20'

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 400 TPH

   Manufactured date: 2022 **Proposed installation date:** 12/2022

   Original installation date (if existing):

   Reconstruction or Modification date (if applicable):

4. **Normal operating schedule:**

   Hours per day: 11 **Days per week:** 5.5 **Weeks per year:** 50

   Peak production season (if any): Spring & Summer

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
Limestone	400 TPH	800 TPH	1,200,000

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

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal	N/A	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
Limestone	1,200,000	tons

8. For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):

N/A

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		Geographic Coordinates		Height Above Grade (Feet)	GEP Stack Height (Feet)	Base Elevation (Feet)	Inside Diameter for Round Opening (Feet)	Inside Area if NOT Round Opening (sq. feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)	LAT	LONG								
	Fugitive	Emmisions										

* 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)
1B	PM	2.54	2.12	AP-42	N/A	7%

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.)
Limestone	24"-Dust	500	Wetted

Name of person preparing application: Lance Green

Signature: Lance Green Digitally signed by Lance Green Date: 2022.05.19 11:43:24 -05'00' Date:

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

[ ][ ][ ] - [ ][ ][ ][ ] - [ ][ ][ ][ ]
Do not write in this space

1. **Name of facility or organization:** North Alabama Materials Lacey's Spring Quarry

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 2

   Limestone rock will be fed by an VGF into jaw crusher.

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

   Make: Terex **Model:** MJ55

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 800 TPH

   Manufactured date: 2022 **Proposed installation date:** 12/2022

   Original installation date (if existing):

   Reconstruction or Modification date (if applicable):

4. **Normal operating schedule:**

   Hours per day: 11 **Days per week:** 5.5 **Weeks per year:** 50

   Peak production season (if any): Spring & Summer

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
Limestone	400 TPH	800 TPH	1,200,000

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

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal	N/A	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
Limestone	1,200,000	tons

8. For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):
N/A

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		Geographic Coordinates		Height Above Grade (Feet)	GEP Stack Height (Feet)	Base Elevation (Feet)	Inside Diameter for Round Opening (Feet)	Inside Area if NOT Round Opening (sq. feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)	LAT	LONG								
	Fugitive	Emmisions										

* 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)
2	PM	0.44	.72	AP-42	N/A	12%

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.)
Limestone	24"-Dust	500	Wetted

Name of person preparing application: Lance Green

Signature: Lance Green Digitally signed by Lance Green Date: 2022.05.19 11:43:24 -05'00' Date:

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

[ ][ ][ ] - [ ][ ][ ][ ] - [ ][ ][ ][ ]
Do not write in this space

1. **Name of facility or organization:** North Alabama Materials Lacey's Spring Quarry

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 3

   Material from MJ55(B) will discharge onto Conveyor (C1) that will deliver material to SM 620 scalping screen(D).

3. **Type of unit or process (e.g., calcining kiln, cupola furnace):** Transfer Conveyor (C1)

   Make: MGL **Model:** 48" X 90'

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 800 TPH

   Manufactured date: 2022 **Proposed installation date:** 12/2022

   Original installation date (if existing):

   Reconstruction or Modification date (if applicable):

4. **Normal operating schedule:**

   Hours per day: 11 **Days per week:** 5.5 **Weeks per year:** 50

   Peak production season (if any): Spring & Summer

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
Limestone	400 TPH	800 TPH	1,200,000

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

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal	N/A	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
Limestone	1,200,000	tons

8. For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):
N/A

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		Geographic Coordinates		Height Above Grade (Feet)	GEP Stack Height (Feet)	Base Elevation (Feet)	Inside Diameter for Round Opening (Feet)	Inside Area if NOT Round Opening (sq. feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)	LAT	LONG								
	Fugitive	emissions										

* 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			Regulatory Emission Limit	
		(lb/hr)	(Tons/yr)	Basis of Calculation	(lb/hr)	(units of standard)
3	PM	1.78	2.94	AP-42		7%

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.)
Limestone	24"-Dust	500	Wetted

Name of person preparing application: Lance Green

Signature: Lance Green Digitally signed by Lance Green Date: 2022.05.19 13:52:35 -05'00' Date:

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

[ ][ ][ ] - [ ][ ][ ][ ] - [ ][ ][ ][ ]
Do not write in this space

1. **Name of facility or organization:** North Alabama Materials Lacey's Spring Quarry

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 4

   Limestone rock enters Scalping screen(D) via transfer conveyor(C1) and separated into various sizes and sends material by chutes to Radial Stackers (RS1,RS2), Transfer Conveyor (C2,C3).

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

   Make: Terex **Model:** SM620

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 800 TPH

   Manufactured date: 2022 **Proposed installation date:** 12/2022

   Original installation date (if existing):

   Reconstruction or Modification date (if applicable):

4. **Normal operating schedule:**

   Hours per day: 11 **Days per week:** 5.5 **Weeks per year:** 50

   Peak production season (if any): Spring & Summer

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
Limestone	400 TPH	800 TPH	1,200,000

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

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal	N/A	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
Limestone	1,200,000	tons

8. For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):
N/A

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		Geographic Coordinates		Height Above Grade (Feet)	GEP Stack Height (Feet)	Base Elevation (Feet)	Inside Diameter for Round Opening (Feet)	Inside Area if NOT Round Opening (sq. feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)	LAT	LONG								
	Fugitive	emissions										

* 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			Regulatory Emission Limit	
		(lb/hr)	(Tons/yr)	Basis of Calculation	(lb/hr)	(units of standard)
4	PM	1.27	1.05	AP-42		7%
5	PM	1.27	1.05	AP-42		7%
6	PM	1.27	1.05	AP-42		7%
7	PM	1.27	1.05	AP-42		7%

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.)
Limestone	24"-Dust	500	Wetted

Name of person preparing application: Lance Green

Signature: Lance Green Digitally signed by Lance Green Date: 2022.05.19 12:52:28 -05'00' Date:

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

[ ][ ][ ] - [ ][ ][ ][ ] - [ ][ ][ ][ ]
Do not write in this space

1. **Name of facility or organization:** North Alabama Materials Lacey's Spring Quarry

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 ____

   There will be 9 radial stackers (RS1-RS9) to stockpile material from crushers and screens. RS1 - operating scenario 5 , RS2 - 6, RS3 - 8, RS4 - 36, RS5 - 37, RS6 - 35, RS7 - 32 , RS8 -33, RS9 -34

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

   Make: MGL **Model:** 30" x 100'

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 400 TPH

   Manufactured date: 2022 **Proposed installation date:** 12/2022

   Original installation date (if existing): _____

   Reconstruction or Modification date (if applicable): _____

4. **Normal operating schedule:**

   Hours per day: 11 **Days per week:** 5.5 **Weeks per year:** 50

   Peak production season (if any): Spring & Summer

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
Limestone	200 TPH	400 TPH	600,000

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

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal	N/A	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
Limestone	600,000	tons

8. For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):
N/A

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		Geographic Coordinates		Height Above Grade (Feet)	GEP Stack Height (Feet)	Base Elevation (Feet)	Inside Diameter for Round Opening (Feet)	Inside Area if NOT Round Opening (sq. feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)	LAT	LONG								
	Fugitive	emissions										

* 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			Regulatory Emission Limit	
		(lb/hr)	(Tons/yr)	Basis of Calculation	(lb/hr)	(units of standard)
5	PM	1.78	1.47	AP-42		7%
6	PM	1.78	1.47	AP-42		7%
8	PM	1.78	1.47	AP-42		7%
32	PM	1.78	1.47	AP-42		7%
33	PM	1.78	1.47	AP-42		7%
34	PM	1.78	1.47	AP-42		7%
35	PM	1.78	1.47	AP-42		7%
36	PM	1.78	1.47	AP-42		7%
37	PM	1.78	1.47	AP-42		7%

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.)
Limestone	24"-Dust	500	Wetted

Name of person preparing application: Lance Green

Signature: Lance Green Digitally signed by Lance Green Date: 2022.05.19 13:52:35 -05'00' **Date:**

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

			-					-				

Do not write in this space

1. **Name of facility or organization:** North Alabama Materials Lacey's Spring Quarry

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 7

   Material from SM620(D) will discharge onto Conveyor (C2) that will deliver material to Radial Stacker(RS3).

3. **Type of unit or process (e.g., calcining kiln, cupola furnace):** Transfer Conveyor (C2)

   Make: MGL **Model:** 36" X100'

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 600 TPH

   Manufactured date: 2022 **Proposed installation date:** 12/2022

   Original installation date (if existing):

   Reconstruction or Modification date (if applicable):

4. **Normal operating schedule:**

   Hours per day: 11 **Days per week:** 5.5 **Weeks per year:** 50

   Peak production season (if any): Spring & Summer

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
Limestone	300 TPH	600 TPH	800,000

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

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal	N/A	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
Limestone	800,000	tons

8. For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):
N/A

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		Geographic Coordinates		Height Above Grade (Feet)	GEP Stack Height (Feet)	Base Elevation (Feet)	Inside Diameter for Round Opening (Feet)	Inside Area if NOT Round Opening (sq. feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)	LAT	LONG								
	Fugitive	emissions										

* 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			Regulatory Emission Limit	
		(lb/hr)	(Tons/yr)	Basis of Calculation	(lb/hr)	(units of standard)
7	PM	1.78	2.21	AP-42		7%

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.)
Limestone	24"-Dust	500	Wetted

Name of person preparing application: Lance Green

Signature: Lance Green Digitally signed by Lance Green Date: 2022.05.19 13:52:35 -05'00' Date:

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

[ ][ ][ ] - [ ][ ][ ][ ] - [ ][ ][ ][ ]
Do not write in this space

1. **Name of facility or organization:** North Alabama Materials Lacey's Spring Quarry

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 9

   Material from SM620(D) will discharge onto Conveyor (C3) that will deliver material to HSI 1516 (E).

3. **Type of unit or process (e.g., calcining kiln, cupola furnace):** Transfer Conveyor (C3)

   Make: MGL **Model:** 48" X130'

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 800 TPH

   Manufactured date: 2022 **Proposed installation date:** 12/2022

   Original installation date (if existing):

   Reconstruction or Modification date (if applicable):

4. **Normal operating schedule:**

   Hours per day: 11 **Days per week:** 5.5 **Weeks per year:** 50

   Peak production season (if any): Spring & Summer

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
Limestone	400 TPH	800 TPH	1,200,000

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

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal	N/A	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
Limestone	1,200,000	tons

8. For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):
N/A

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		Geographic Coordinates		Height Above Grade (Feet)	GEP Stack Height (Feet)	Base Elevation (Feet)	Inside Diameter for Round Opening (Feet)	Inside Area if NOT Round Opening (sq. feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)	LAT	LONG								
	Fugitive	emissions										

* 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			Regulatory Emission Limit	
		(lb/hr)	(Tons/yr)	Basis of Calculation	(lb/hr)	(units of standard)
9	PM	1.78	2.94	AP-42		7%

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.)
Limestone	24"-Dust	500	Wetted

Name of person preparing application: Lance Green

Signature: Lance Green Digitally signed by Lance Green Date: 2022.05.19 13:52:35 -05'00' Date:

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

			-					-				

Do not write in this space

1. **Name of facility or organization:** North Alabama Materials Lacey's Spring Quarry

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 10

   Limestone rock enters secondary Impact crusher (E) from transfer conveyor(C3) where it is broken down into smaller sizes.

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

   Make: Terex **Model:** 1516 HSI

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 800 TPH

   Manufactured date: 2022 **Proposed installation date:** 12/2022

   Original installation date (if existing):

   Reconstruction or Modification date (if applicable):

4. **Normal operating schedule:**

   Hours per day: 11 **Days per week:** 5.5 **Weeks per year:** 50

   Peak production season (if any): Spring & Summer

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
Limestone	400 TPH	800 TPH	1,200,000

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

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal	N/A	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
Limestone	1,200,000	tons

8. For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):

N/A

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		Geographic Coordinates		Height Above Grade (Feet)	GEP Stack Height (Feet)	Base Elevation (Feet)	Inside Diameter for Round Opening (Feet)	Inside Area if NOT Round Opening (sq. feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)	LAT	LONG								
	Fugitive	emissions										

* 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			Regulatory Emission Limit	
		(lb/hr)	(Tons/yr)	Basis of Calculation	(lb/hr)	(units of standard)
10	PM	0.44	0.72	AP-42	N/A	12%

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.)
Limestone	24"-Dust	500	Wetted

Name of person preparing application: Lance Green

Signature: Lance Green Digitally signed by Lance Green Date: 2022.05.19 11:55:19 -05'00' Date:

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

[ ][ ][ ] - [ ][ ][ ][ ] - [ ][ ][ ][ ]
Do not write in this space

1. **Name of facility or organization:** North Alabama Materials Lacey's Spring Quarry

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 11

   Material from Impactor (E) will discharge onto Conveyor (C4) that will deliver material to Splitter Box (F).

3. **Type of unit or process (e.g., calcining kiln, cupola furnace):** Transfer Conveyor (C4)

   Make: MGL **Model:** 48" X 80'

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 800 TPH

   Manufactured date: 2022 **Proposed installation date:** 12/2022

   Original installation date (if existing):

   Reconstruction or Modification date (if applicable):

4. **Normal operating schedule:**

   Hours per day: 11 **Days per week:** 5.5 **Weeks per year:** 50

   Peak production season (if any): Spring & Summer

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
Limestone	400 TPH	800 TPH	1,200,000

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

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal	N/A	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
Limestone	1,200,000	tons

8. For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):

N/A

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		Geographic Coordinates		Height Above Grade (Feet)	GEP Stack Height (Feet)	Base Elevation (Feet)	Inside Diameter for Round Opening (Feet)	Inside Area if NOT Round Opening (sq. feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)	LAT	LONG								
	Fugitive	emissions										

* 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			Regulatory Emission Limit	
		(lb/hr)	(Tons/yr)	Basis of Calculation	(lb/hr)	(units of standard)
11	PM	1.78	2.94	AP-42		7%

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.)
Limestone	24"-Dust	500	Wetted

Name of person preparing application: Lance Green

Signature: Lance Green Digitally signed by Lance Green Date: 2022.05.19 13:52:35 -05'00' Date:

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

[ ][ ][ ] - [ ][ ][ ][ ] - [ ][ ][ ][ ]

Do not write in this space

1. **Name of facility or organization:** North Alabama Materials Lacey's Spring Quarry

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 12

   Conveyor (C4) will deliver material to Splitter Box (F) that will deliver material to Conveyors (C5,C6)

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

   Make: Terex **Model:** NA

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 800 TPH

   Manufactured date: 2022 **Proposed installation date:** 12/2022

   Original installation date (if existing):

   Reconstruction or Modification date (if applicable):

4. **Normal operating schedule:**

   Hours per day: 11 **Days per week:** 5.5 **Weeks per year:** 50

   Peak production season (if any): Spring & Summer

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
Limestone	400 TPH	800 TPH	1,200,000

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

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal	N/A	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
Limestone	1,200,000	tons

8. For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):
N/A

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		Geographic Coordinates		Height Above Grade (Feet)	GEP Stack Height (Feet)	Base Elevation (Feet)	Inside Diameter for Round Opening (Feet)	Inside Area if NOT Round Opening (sq. feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)	LAT	LONG								
	Fugitive	emissions										

* 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			Regulatory Emission Limit	
		(lb/hr)	(Tons/yr)	Basis of Calculation	(lb/hr)	(units of standard)
12	PM	1.78	2.94	AP-42		7%

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.)
Limestone	24"-Dust	500	Wetted

Name of person preparing application: Lance Green

Signature: Lance Green Digitally signed by Lance Green Date: 2022.05.19 13:52:35 -05'00' Date:

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

[ ][ ][ ] - [ ][ ][ ][ ] - [ ][ ][ ][ ]
Do not write in this space

1. **Name of facility or organization:** North Alabama Materials Lacey's Spring Quarry

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 13,14

   Conveyors (C5,C6) will deliver material from Splitter Box (F) to Screens (G,H).

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

   Make: MGL **Model:** 36" X 100'

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 800 TPH

   Manufactured date: 2022 **Proposed installation date:** 12/2022

   Original installation date (if existing):

   Reconstruction or Modification date (if applicable):

4. **Normal operating schedule:**

   Hours per day: 11 **Days per week:** 5.5 **Weeks per year:** 50

   Peak production season (if any): Spring & Summer

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
Limestone	400 TPH	800 TPH	1,200,000

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

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal	N/A	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
Limestone	1,200,000	tons

8. For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):

N/A

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		Geographic Coordinates		Height Above Grade (Feet)	GEP Stack Height (Feet)	Base Elevation (Feet)	Inside Diameter for Round Opening (Feet)	Inside Area if NOT Round Opening (sq. feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)	LAT	LONG								
	Fugitive	emissions										

* 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			Regulatory Emission Limit	
		(lb/hr)	(Tons/yr)	Basis of Calculation	(lb/hr)	(units of standard)
13	PM	1.78	2.94	AP-42		7%
14	PM	1.78	2.94	AP-42		7%

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.)
Limestone	24"-Dust	500	Wetted

Name of person preparing application: Lance Green

Signature: Lance Green Digitally signed by Lance Green Date: 2022.05.19 13:52:35 -05'00' **Date:**

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

[ ][ ][ ] - [ ][ ][ ][ ] - [ ][ ][ ][ ]
Do not write in this space

1. **Name of facility or organization:** North Alabama Materials Lacey's Spring Quarry

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 15,16

   Limestone rock enters screens via transfer conveyors (C5,C6) and is separated into various sizes and sends material via chutes to transfer conveyors (C7-C11)

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

   Make: Terex **Model:** LJ-TSV8203

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 400 TPH

   Manufactured date: 2022 **Proposed installation date:** 12/2022

   Original installation date (if existing):

   Reconstruction or Modification date (if applicable):

4. **Normal operating schedule:**

   Hours per day: 11 **Days per week:** 5.5 **Weeks per year:** 50

   Peak production season (if any): Spring & Summer

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
Limestone	200 TPH	400 TPH	600,000

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

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal	N/A	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
Limestone	600,000	tons

8. For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):
N/A

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		Geographic Coordinates		Height Above Grade (Feet)	GEP Stack Height (Feet)	Base Elevation (Feet)	Inside Diameter for Round Opening (Feet)	Inside Area if NOT Round Opening (sq. feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)	LAT	LONG								
	Fugitive	emissions										

* 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			Regulatory Emission Limit	
		(lb/hr)	(Tons/yr)	Basis of Calculation	(lb/hr)	(units of standard)
15	PM	1.27	1.05	AP-42		7%
16	PM	1.27	1.05	AP-42		7%

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.)
Limestone	24"-Dust	500	Wetted

Name of person preparing application: Lance Green

Signature: Lance Green Digitally signed by Lance Green Date: 2022.05.19 12:52:28 -05'00' Date:

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

[ ][ ][ ] - [ ][ ][ ][ ] - [ ][ ][ ][ ]
Do not write in this space

1. **Name of facility or organization:** North Alabama Materials Lacey's Spring Quarry

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 17-21

   Conveyors (C7-C11) will deliver material from Sceens (G,H) to Radial Stackers(RS4-RS6).

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

   Make: MGL **Model:** 36" X 60'

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 800 TPH

   Manufactured date: 2022 **Proposed installation date:** 12/2022

   Original installation date (if existing):

   Reconstruction or Modification date (if applicable):

4. **Normal operating schedule:**

   Hours per day: 11 **Days per week:** 5.5 **Weeks per year:** 50

   Peak production season (if any): Spring & Summer

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
Limestone	400 TPH	800 TPH	1,200,000

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

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal	N/A	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
Limestone	1,200,000	tons

8. For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):

N/A

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		Geographic Coordinates		Height Above Grade (Feet)	GEP Stack Height (Feet)	Base Elevation (Feet)	Inside Diameter for Round Opening (Feet)	Inside Area if NOT Round Opening (sq. feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)	LAT	LONG								
	Fugitive	emissions										

* 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			Regulatory Emission Limit	
		(lb/hr)	(Tons/yr)	Basis of Calculation	(lb/hr)	(units of standard)
17	PM	1.78	2.94	AP-42		7%
18	PM	1.78	2.94	AP-42		7%
19	PM	1.78	2.94	AP-42		7%
20	PM	1.78	2.94	AP-42		7%
21	PM	1.78	2.94	Ap-42		7%

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.)
Limestone	24"-Dust	500	Wetted

Name of person preparing application: Lance Green

Signature: Lance Green Digitally signed by Lance Green Date: 2022.05.19 13:52:35 -05'00' Date:

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

[ ][ ][ ] - [ ][ ][ ][ ] - [ ][ ][ ][ ]
Do not write in this space

1. **Name of facility or organization:** North Alabama Materials Lacey's Spring Quarry

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 22

   Conveyor (C7) will deliver material to Splitter Box (I) that will deliver material to Conveyors (C12,C13)

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

   Make: Terex **Model:** NA

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 800 TPH

   Manufactured date: 2022 **Proposed installation date:** 12/2022

   Original installation date (if existing):

   Reconstruction or Modification date (if applicable):

4. **Normal operating schedule:**

   Hours per day: 11 **Days per week:** 5.5 **Weeks per year:** 50

   Peak production season (if any): Spring & Summer

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
Limestone	400 TPH	800 TPH	1,200,000

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

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal	N/A	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
Limestone	1,200,000	tons

8. For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):

N/A

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		Geographic Coordinates		Height Above Grade (Feet)	GEP Stack Height (Feet)	Base Elevation (Feet)	Inside Diameter for Round Opening (Feet)	Inside Area if NOT Round Opening (sq. feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)	LAT	LONG								
	Fugitive	emissions										

* 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			Regulatory Emission Limit	
		(lb/hr)	(Tons/yr)	Basis of Calculation	(lb/hr)	(units of standard)
22	PM	1.78	2.94	AP-42		7%

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.)
Limestone	24"-Dust	500	Wetted

Name of person preparing application: Lance Green

Signature: Lance Green Digitally signed by Lance Green Date: 2022.05.19 13:52:35 -05'00' Date:

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

[ ][ ][ ] - [ ][ ][ ][ ] - [ ][ ][ ][ ]
Do not write in this space

1. **Name of facility or organization:** North Alabama Materials Lacey's Spring Quarry

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 23,24

   Conveyors (C12,C13) will deliver material from Splitter(I) to Conveyor (C3) and Lippman Impactor(J).

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

   Make: MGL **Model:** 36" X 60'

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 800 TPH

   Manufactured date: 2022 **Proposed installation date:** 12/2022

   Original installation date (if existing):

   Reconstruction or Modification date (if applicable):

4. **Normal operating schedule:**

   Hours per day: 11 **Days per week:** 5.5 **Weeks per year:** 50

   Peak production season (if any): Spring & Summer

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
Limestone	400 TPH	800 TPH	1,200,000

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

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal	N/A	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
Limestone	1,200,000	tons

8. For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):

N/A

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		Geographic Coordinates		Height Above Grade (Feet)	GEP Stack Height (Feet)	Base Elevation (Feet)	Inside Diameter for Round Opening (Feet)	Inside Area if NOT Round Opening (sq. feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)	LAT	LONG								
	Fugitive	emissions										

* 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			Regulatory Emission Limit	
		(lb/hr)	(Tons/yr)	Basis of Calculation	(lb/hr)	(units of standard)
23	PM	1.78	2.94	AP-42		7%
24	PM	1.78	2.94	AP-42		7%

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.)
Limestone	24"-Dust	500	Wetted

Name of person preparing application: Lance Green

Signature: Lance Green Digitally signed by Lance Green Date: 2022.05.19 13:52:35 -05'00' **Date:**

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

[ ][ ][ ] - [ ][ ][ ][ ] - [ ][ ][ ][ ]
Do not write in this space

1. **Name of facility or organization:** North Alabama Materials Lacey's Spring Quarry

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 25

   Limestone rock enters tertiary Impact crusher (J) from the conveyor (C12) where it is broken down into smaller sizes.

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

   Make: Lippman **Model:** LI 5165S

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 380 TPH

   Manufactured date: 2020 **Proposed installation date:** 12/2022

   Original installation date (if existing):

   Reconstruction or Modification date (if applicable):

4. **Normal operating schedule:**

   Hours per day: 11 **Days per week:** 5.5 **Weeks per year:** 50

   Peak production season (if any): Spring & Summer

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
Limestone	200 TPH	400 TPH	600,000

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

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal	N/A	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
Limestone	600,000	tons

8. For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):

N/A

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		Geographic Coordinates		Height Above Grade (Feet)	GEP Stack Height (Feet)	Base Elevation (Feet)	Inside Diameter for Round Opening (Feet)	Inside Area if NOT Round Opening (sq. feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)	LAT	LONG								
	Fugitive	emissions										

* 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			Regulatory Emission Limit	
		(lb/hr)	(Tons/yr)	Basis of Calculation	(lb/hr)	(units of standard)
25	PM	0.44	0.36	AP-42	N/A	12%

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.)
Limestone	24"-Dust	500	Wetted

Name of person preparing application: Lance Green

Signature: Lance Green Digitally signed by Lance Green Date: 2022.05.19 11:55:19 -05'00' Date:

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

[ ][ ][ ] - [ ][ ][ ][ ] - [ ][ ][ ][ ]
Do not write in this space

1. **Name of facility or organization:** North Alabama Materials Lacey's Spring Quarry

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 26

   Conveyor (C14) will deliver material from Impactor (J) to Screen(K).

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

   Make: MGL **Model:** 36" X 60'

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 800 TPH

   Manufactured date: 2022 **Proposed installation date:** 12/2022

   Original installation date (if existing):

   Reconstruction or Modification date (if applicable):

4. **Normal operating schedule:**

   Hours per day: 11 **Days per week:** 5.5 **Weeks per year:** 50

   Peak production season (if any): Spring & Summer

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
Limestone	400 TPH	800 TPH	1,200,000

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

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal	N/A	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
Limestone	1,200,000	tons

8. For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):
N/A

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		Geographic Coordinates		Height Above Grade (Feet)	GEP Stack Height (Feet)	Base Elevation (Feet)	Inside Diameter for Round Opening (Feet)	Inside Area if NOT Round Opening (sq. feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)	LAT	LONG								
	Fugitive	emissions										

* 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)
26	PM	1.78	2.94	AP-42		7%

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.)
Limestone	24"-Dust	500	Wetted

Name of person preparing application: Lance Green

Signature: Lance Green Digitally signed by Lance Green Date: 2022.05.19 13:52:35 -05'00' Date:

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

[ ][ ][ ] - [ ][ ][ ][ ] - [ ][ ][ ][ ]
Do not write in this space

1. **Name of facility or organization:** North Alabama Materials Lacey's Spring Quarry

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 27

   Limestone rock enters screen via transfer conveyor(C14) and separated into various sizes and sends material via tranfer conveyors(C15-18) to radial stackers for stockpile.

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

   Make: Lippman **Model:** L820S

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 400 TPH

   Manufactured date: 2020 **Proposed installation date:** 7/2022

   Original installation date (if existing):

   Reconstruction or Modification date (if applicable):

4. **Normal operating schedule:**

   Hours per day: 11 **Days per week:** 5.5 **Weeks per year:** 50

   Peak production season (if any): Spring & Summer

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
Limestone	200 TPH	400 TPH	600,000

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

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal	N/A	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
Limestone	600,000	tons

8. For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):
N/A

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		Geographic Coordinates		Height Above Grade (Feet)	GEP Stack Height (Feet)	Base Elevation (Feet)	Inside Diameter for Round Opening (Feet)	Inside Area if NOT Round Opening (sq. feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)	LAT	LONG								
	Fugitive	emissions										

* 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			Regulatory Emission Limit	
		(lb/hr)	(Tons/yr)	Basis of Calculation	(lb/hr)	(units of standard)
27	PM	1.27	1.05	AP-42		7%

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.)
Limestone	24"-Dust	500	Wetted

Name of person preparing application: Lance Green

Signature: Lance Green Digitally signed by Lance Green Date: 2022.05.19 12:52:28 -05'00' Date:

PERMIT APPLICATION
FOR
MANUFACTURING OR PROCESSING OPERATION

			-					-				

Do not write in this space

1. **Name of facility or organization:** North Alabama Materials Lacey's Spring Quarry

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 28-31

   Conveyors (C15-C18) will deliver material from Screen (K) to Radial Stackers(RS7-RS9).

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

   Make: MGL **Model:** 36" X 60'

   Rated process capacity (manufacturer's or designer's guaranteed maximum) in pounds/hour: 800 TPH

   Manufactured date: 2022 **Proposed installation date:** 12/2022

   Original installation date (if existing):

   Reconstruction or Modification date (if applicable):

4. **Normal operating schedule:**

   Hours per day: 11 **Days per week:** 5.5 **Weeks per year:** 50

   Peak production season (if any): Spring & Summer

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
Limestone	400 TPH	800 TPH	1,200,000

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

Fuel	Heat Content	Units	Max. % Sulfur	Max. % Ash	Grade No. [fuel oil only]	Supplier [used oil only]
Coal	N/A	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
Limestone	1,200,000	tons

8. For each regulated pollutant, describe any limitations on source operation which affects emissions or any work practice standard (attach additional page if necessary):
N/A

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		Geographic Coordinates		Height Above Grade (Feet)	GEP Stack Height (Feet)	Base Elevation (Feet)	Inside Diameter for Round Opening (Feet)	Inside Area if NOT Round Opening (sq. feet)	Gas Exit Velocity (Feet/Sec)	Volume of Gas Discharged (ACFM)	Exit Temperature (°F)
	E-W (km)	N-S (km)	LAT	LONG								
	Fugitive	emissions										

* 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			Regulatory Emission Limit	
		(lb/hr)	(Tons/yr)	Basis of Calculation	(lb/hr)	(units of standard)
28	PM	1.78	2.94	AP-42		7%
29	PM	1.78	2.94	AP-42		7%
30	PM	1.78	2.94	AP-42		7%
31	PM	1.78	2.94	AP-42		7%

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?

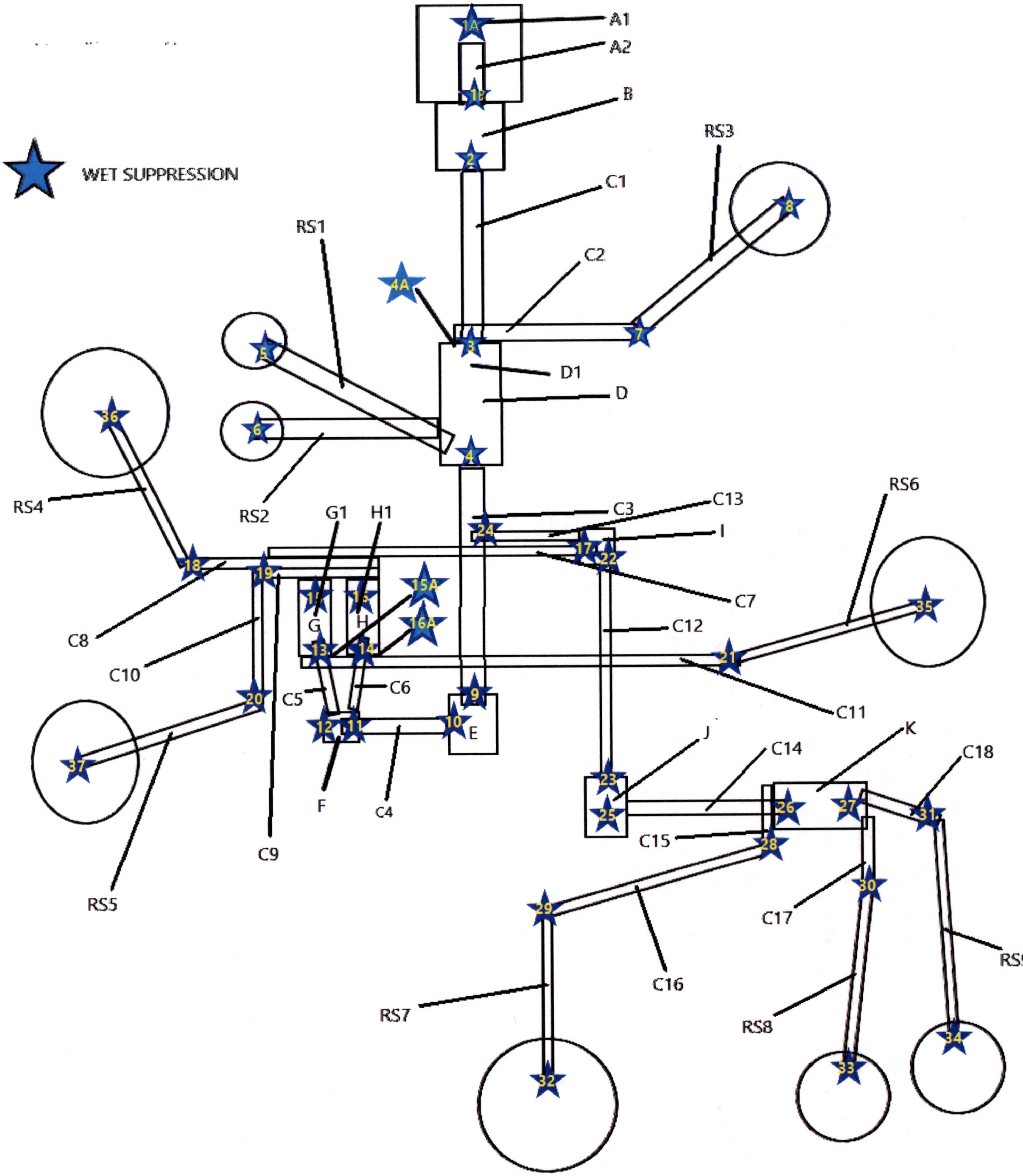
☒Yes ☐No

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.)
Limestone	24"-Dust	500	Wetted

Name of person preparing application: Lance Green

Signature: Lance Green Digitally signed by Lance Green Date: 2022.05.19 13:52:35 -05'00' Date:



WET SUPPRESSION
A1
A2
1A
1B
B
2
C1
RS3
8
RS1
C2
4A
3
7
5
D1
D
36
6
4
RS4
RS2
G1
H1
C3
C13
24
I
17
22
18
19
15A
C7
15
16
RS6
35
C8
G
H
16A
C12
C10
13
14
21
C11
C5
C6
20
9
12
11
10
E
37
F
C4
J
C14
K
C18
23
26
27
31
25
C15
28
C9
30
RS5
29
C17
C16
RS9
RS7
RS8
34
33
32