

Proposed Orangeburg Quarry Modification (18-2) **PUBLIC HEARING**

- ✓ To avoid echoing or feedback, all lines are muted.
- ✓ At the end of the presentation, we will unmute and call upon those who signed up to speak.
- ✓ This virtual hearing will be recorded and posted on our webpage.

Option to Call In

If you are experiencing audio problems, join the virtual hearing by phone:

Phone number: **1 (864) 558-7311**

Access Code: **634 444 335#**



Exits the hearing. (If you accidentally exit the hearing, you can rejoin.)

DON'T WAIT UNTIL IT'S TOO LATE.

Vaccination is the best way
to protect you, your family
and your community.



COVID-19 Vaccine Information Line
1-866-365-8110

www.scdhec.gov/vaxfacts



Martin Marietta Orangeburg Quarry

Mine Operating Permit
Application I-000802

Orangeburg County

PUBLIC MEETING



Agenda

- Gathering Time & Instructions for Participating Remotely
- Introductions & Opening Remarks
- DHEC Presentation
- Questions & Answers
- Closing Remarks
- Meeting Adjourned
- Public Hearing begins at 6:30 PM

Mining Topics

- Mine Permitting Process
- General Information
- Proposed Permitted Area
- Reclamation
- Next Steps
- Addressing Community Concerns

April 2018

- DHEC-Mining and Reclamation Program Receives Application
- Begins Administrative Review

Sept 25,
2018

- DHEC-MR Publishes Initial Public Notice
- Begins Technical Review
- DHEC-MR Acknowledges Public Hearing Request (Oct. 17, 2018)

Oct 2018-
Oct 2019

- SC DNR/USF&W re: Red-cockaded Woodpecker
- Technical Review Continues

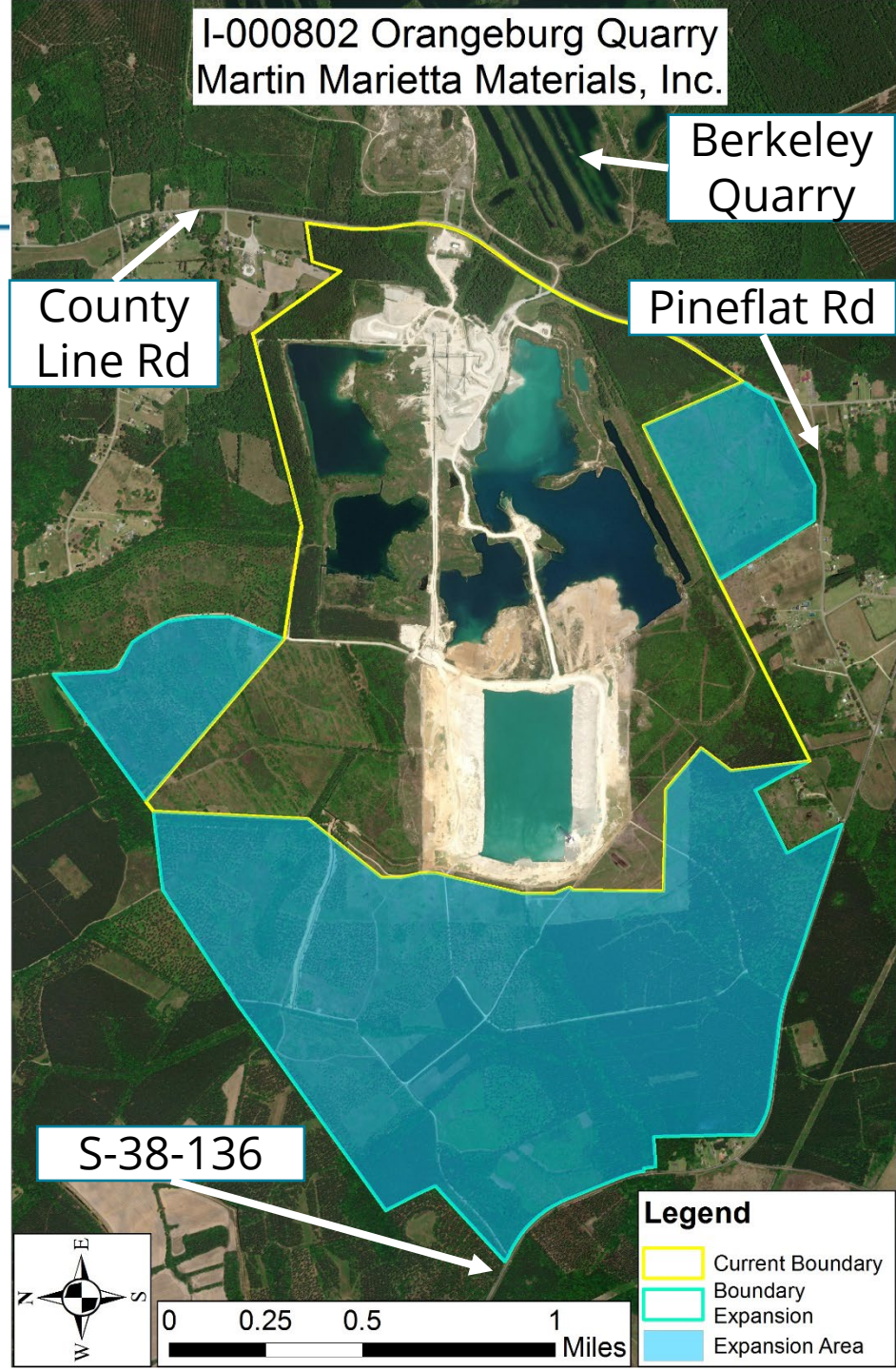
Sep 09,
2021

- DHEC holds a Public Hearing
- **Comment Period Ends Sep. 24, 2021**
- Technical Review Continues

TBD

- DHEC to Make Mine Permitting Decision
- Summary Response to Comments
- Opportunity to Appeal

TMS# 0369-00-01-001
0370-00-00-001 (a portion of)
Total Area: +998.7ac
2,120.9ac
Land Use: Undeveloped
Owner: Martin Marietta Materials



Proposed Permitted Area

Land Use	Currently Permitted	Proposed	Difference
Total Area	1,122.2ac	2,120.9ac	+998.7
Affected Area	642.0ac	1,802.4ac	+1,160.4
Buffer	76.5ac	227.1ac	+150.6
Future Reserves	403.7ac	91.4ac	-312.3

Buffer Area is defined as setback or areas that will not be disturbed beyond the pre-mine natural state.



Proposed Permitted Area

Land Use	Currently Permitted	Proposed	Difference
Total Area	1,122.2ac	2,120.9ac	+998.7
Affected Area	642.0ac	1,802.4ac	+1,160.4
Buffer	76.5ac	227.1ac	+150.6
Future Reserves	403.7ac	91.4ac	-312.3

Prior to the initiation of activity in future reserves, the operator shall :

- submit detailed mine and reclamation plans to DHEC for approval
- Adjust reclamation costs to cover proposed activities



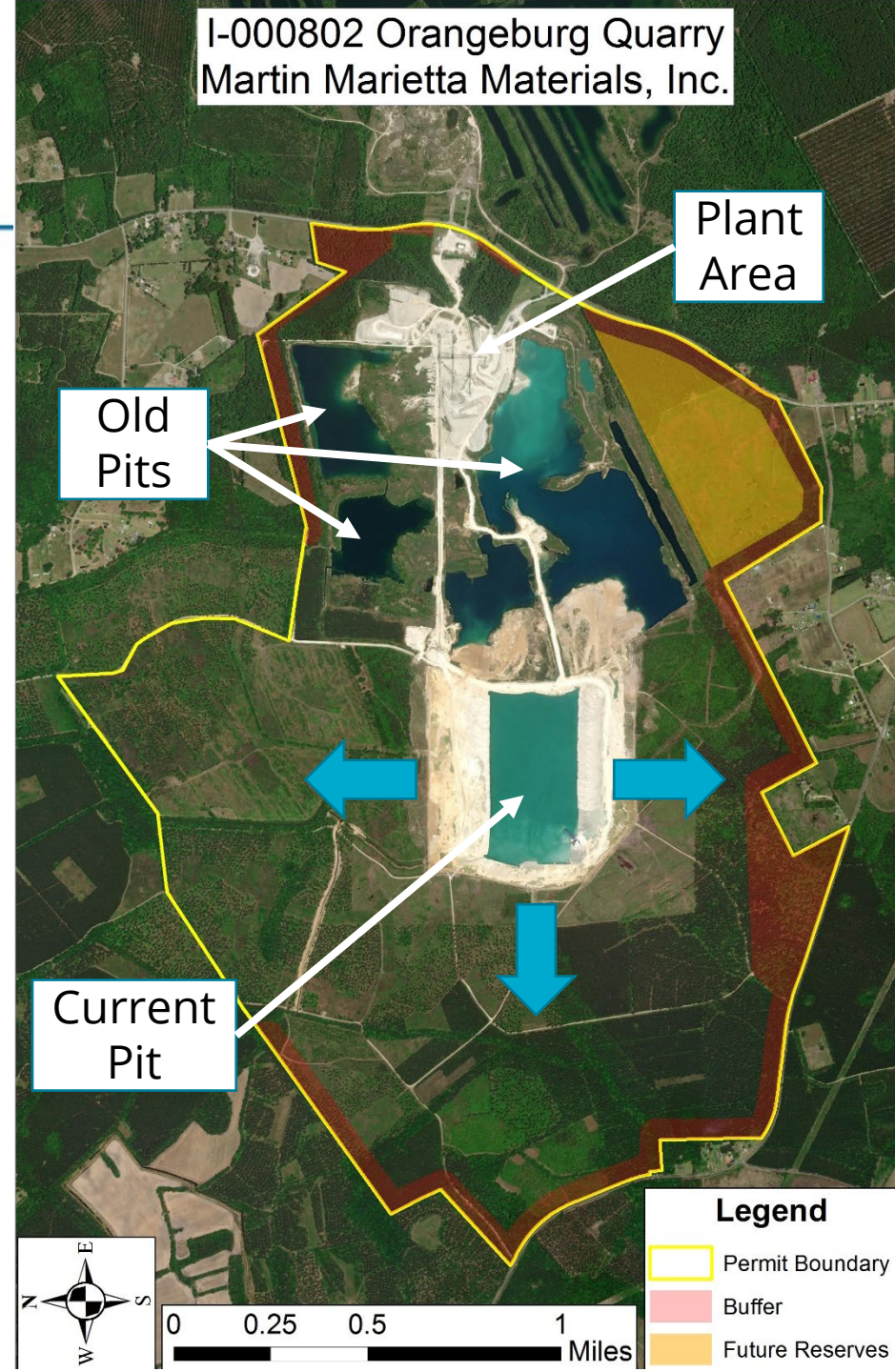
Legend

- Permit Boundary
- Buffer
- Future Reserves

Proposed Permitted Area

Land Use	Currently Permitted	Proposed	Difference
Total Area	1,122.2ac	2,120.9ac	+998.7
Affected Area	642.0ac	1,802.4ac	+1,160.4
Buffer	76.5ac	227.1ac	+150.6
Future Reserves	403.7ac	91.4ac	-312.3

- Plant Area
- Old Pits
- Current Pit



Proposed Mining Process

- Installation of BMPs
- Clearing of trees and vegetation
- Topsoil removed and stockpiled for future reclamation
- Overburden placed in old pits
- Pit developed and dewatered, as needed
- Limestone processed and stockpiled in plant area



Silt fence



Brush Barrier



Stormwater Basin



Water Truck



Check Dams

Proposed Mining Process

- Installation of BMPs
- Clearing of trees and vegetation
- Topsoil removed and stockpiled for future reclamation
- Overburden placed in old pits
- Pit developed and dewatered, as needed
- Limestone processed and stockpiled in plant area



Dragline →

Current pit ↓



Proposed Mining Process (cont.)

- Maximum proposed depth: 85ft.
- Applicant requests permission to blast
 - Landowners with structures within a half mile of blasting will be offered a pre-blast survey
- Applicant may request to mine permitted future reserve areas (requires DHEC approval)

Reclamation

Reclamation is the planned process for restoring the affected land to a useful purpose while protecting natural resources of the surrounding area.

- Reclamation plan included in application
 - Will be reclaimed to ponds and grasslands
 - Land is sloped and graded during the mining process
 - Stockpiled topsoil used to enhance vegetation
- Reclamation bond is required prior to any permit issuance to ensure that reclamation is completed

Berkeley Quarry
Berkeley County, S.C.



Example of a reclaimed limestone quarry

Existing DHEC Requirements

- Bureau of Air Quality
 - Air Synthetic Minor Construction Permit
- Bureau of Water
 - National Pollution Discharge Elimination System (NPDES) General Permit
 - Stormwater Pollution Prevention Plan (SWPPP)

No changes to these permits have been requested at this time.

Agency Responses

- SC State Historic Preservation Office
 - No sites identified for inclusion on NRHP
- SC DNR and US Fish & Wildlife
 - October 2018 – Identified RCW habitat area
 - October 2019 – Entered into conservancy agreement
 - Includes more than 336ac of undisturbed area
 - DNR offered no objection beyond these recommendations

Community Concerns

- General blasting concerns.
- Dewatering will lessen the groundwater supply for nearby residents.
- Potential for sinkhole development

Blasting

Typically, 2-4 times a month

"...a safe particle velocity maximum of 2.0in/sec is recommended for all houses."

--U.S. Bureau of Mines

DHEC limits maximum particle velocity to 1.0in/sec.

All residences >550ft from blasting

I-000802 Orangeburg Quarry
Martin Marietta Materials, Inc.



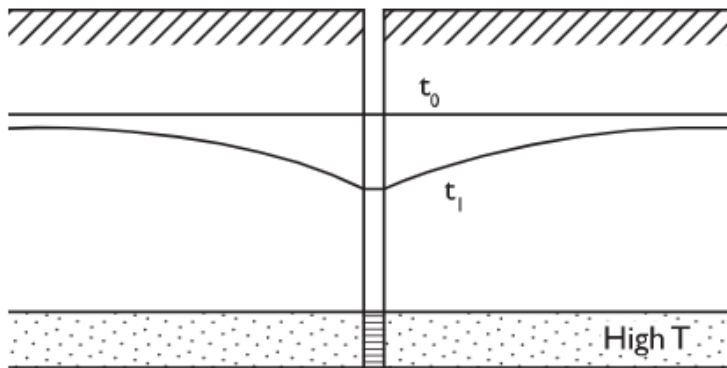
Community Concerns

- General blasting concerns.
- Dewatering will lessen the groundwater supply for nearby residents.
- Potential for sinkhole development

Dewatering

Maximum Depth: 85ft.

Primary Dewatering Layer:
Overburden



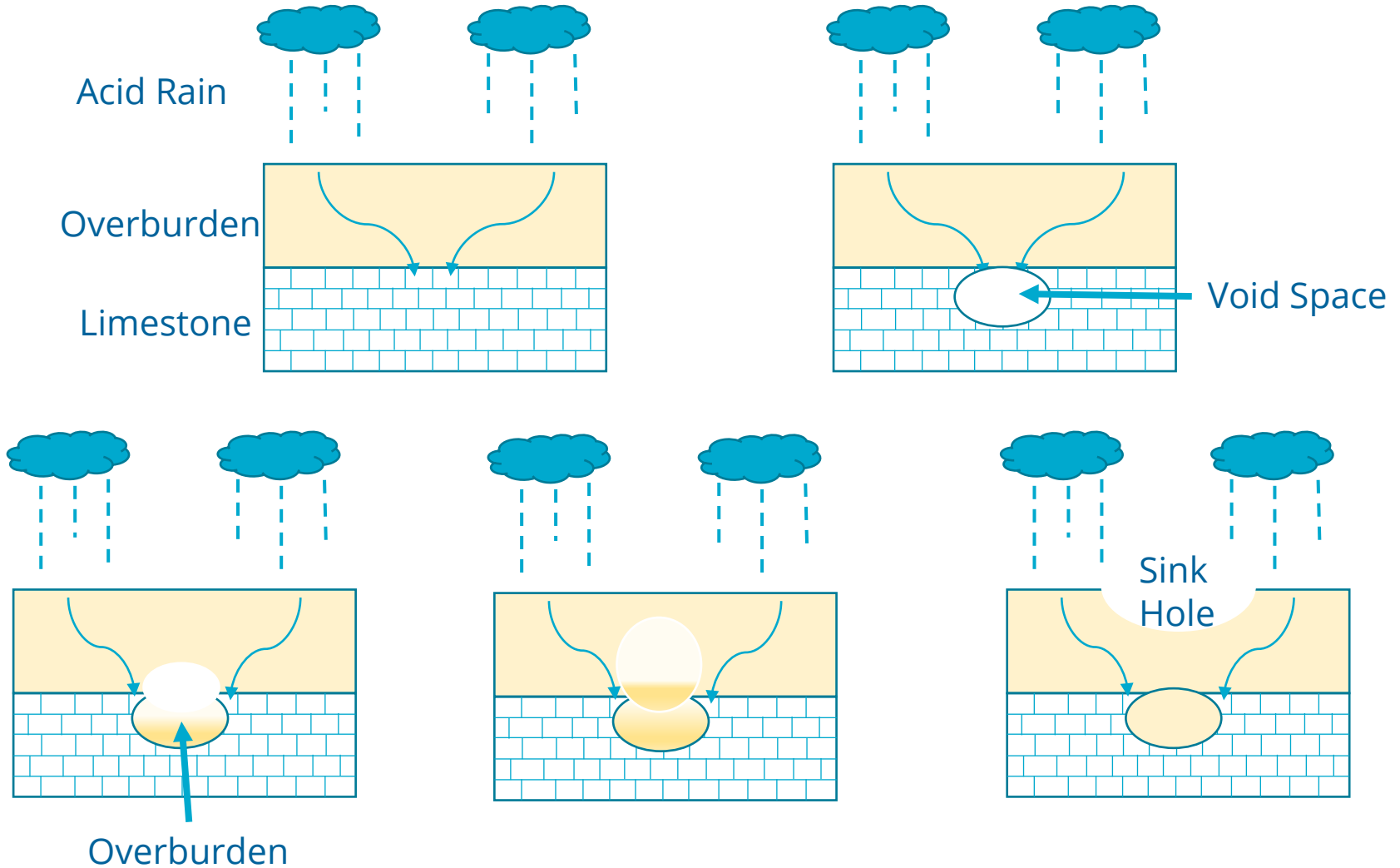
(b)



Community Concerns

- General blasting concerns.
- Dewatering will lessen the groundwater supply for nearby residents.
- Potential for sinkhole development

Sinkhole Formation



Next Steps

- DHEC will review all comments received and conclude the technical review.
- DHEC will post the final permitting decision on the webpage and provide notification to everyone on mailing list.
 - If approved, a written response to all comments received will be included
- Final decision date begins 15-day appeal period.

How to Comment

Submit comments by mail or email through

September 24, 2021 to:

Jeremy Eddy
DHEC/BLWM
2600 Bull Street
Columbia, SC 29201
eddyje@dhec.sc.gov

Additional information can be found at:

www.scdhec.gov/OrangeburgQuarry

How to Participate

To indicate you would like to speak:

- Unmute your line
- Click the 'Hand Raise' icon



Hand Raise

(click this icon to indicate you would like to speak)



Muted

(no one in the meeting can hear you)



Unmuted

(everyone in the meeting can hear you)



If you have called into the meeting, press *6 to unmute