

## Draft Air Quality Construction Permit Effingham Pellets **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.



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# Effingham Pellets, LLC

## Draft Air Quality Construction Permit

Florence County  
**PUBLIC HEARING**



# Agenda

Welcome & Opening Remarks

Monica Taylor  
Hearing Officer

DHEC Presentation on Draft Permit &  
Air Permitting Process

Kristen Tucker  
Bureau of Air Quality  
Air Permitting Division

Public Comments

Closing Remarks

Monica Taylor  
Hearing Officer

Hearing Adjourned



South Carolina Department of Health and Environmental Control

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# Effingham Pellets, LLC

Draft Air Quality Construction Permit

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Kristen Tucker

Bureau of Air Quality, Air Permitting Division

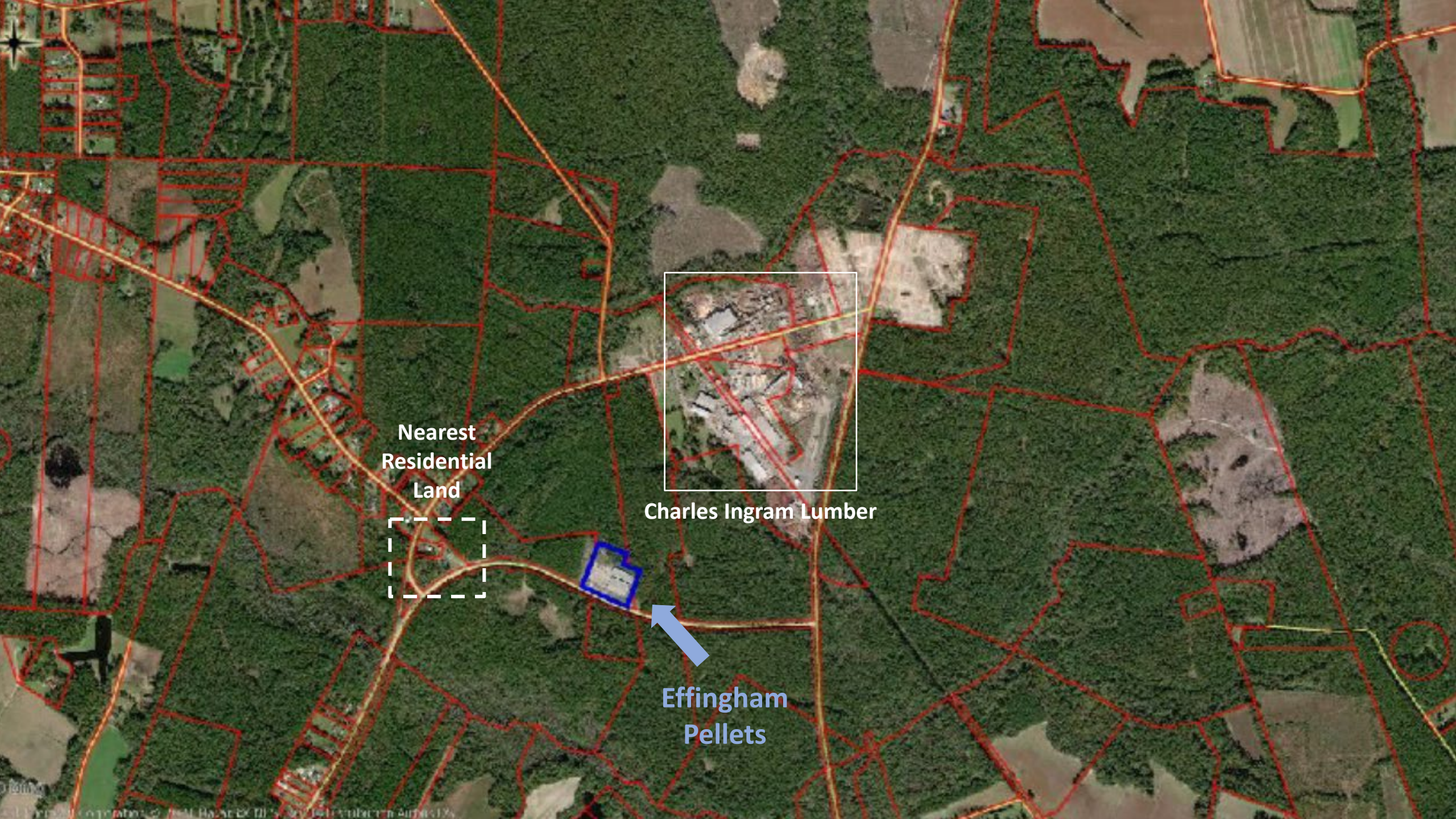
# Permitting Process

- Application received and reviewed for technical completeness
- Determine type of permit required
- Draft permit
- Public Input
- Final Permit Decision

# Proposed Project Overview

- Effingham Pellets, LLC
  - New wood pellet manufacturing facility
  - 45,625 ODT/year
- Location: 4905 Ingram Bypass  
Effingham, SC 29541





Nearest  
Residential  
Land



Charles Ingram Lumber



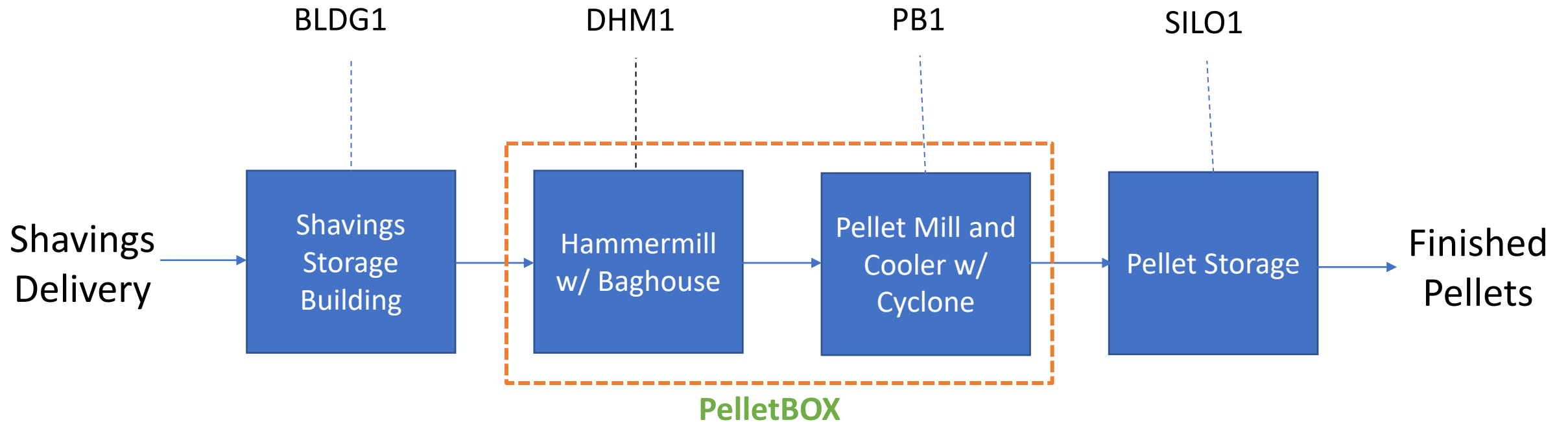
Effingham  
Pellets

# Collocation Determination

| Criteria                          | Reasoning   | Applicable |
|-----------------------------------|---|------------|
| Contiguous or Adjacent Properties | Approx. 1 mile down the road<br>Land leased from Charles Ingram               | ✓          |
| Single Major Industrial Grouping  | SIC Major Group: 24 – Lumber and Wood Products, Except Furniture              | ✓          |
| Common Control                    | Charles Ingram 20% owner of Effingham Pellets.<br>No clear majority ownership | ✗          |

Not Collocated

# Process Flow Diagram



# PelletBox

- Containerized process unit
- Includes:
  - Dry Hammermill
    - Bag Filter for product capture
  - Pellet Mill and Pellet Cooler
    - Cyclone Separator for product capture
- Material transferred via enclosed conveyor systems



# Air Quality Analysis

## Standard No. 2 – Ambient Air Quality Standards

| Air Pollutant     | Exemption Threshold (lb/hr) | Facility Wide Total (lb/hr) |
|-------------------|-----------------------------|-----------------------------|
| PM <sub>10</sub>  | <1.14                       | 0.491                       |
| PM <sub>2.5</sub> | <1.14                       | 0.244                       |
| CO                | <10.0                       | 0.0076                      |

# Air Quality Analysis

## Standard No. 8 – Toxic Air Pollutants

| Air Pollutant   | Emission Rate (lb/day) | Exemption/De Minimis Rate (lb/day) | Maximum Concentration ( $\mu\text{g}/\text{m}^3$ ) | Standard ( $\mu\text{g}/\text{m}^3$ ) | % of Standard |
|-----------------|------------------------|------------------------------------|--|---------------------------------------|---------------|
| Acrolein        | --                     | --                                 | 1.16   | 1.25                                  | 93            |
| Formaldehyde    | --                     | --                                 | 4.90   | 15.00                                 | 33            |
| Acetaldehyde    | 5.100                  | 21.600                             | --   | --                                    | --            |
| Methanol        | 1.990                  | 15.720                             | --   | --                                    | --            |
| Propionaldehyde | 3.374                  | +                                  | --   | --                                    | --            |

# Draft Air Construction Permit Regulatory Requirements

- Applicable Regulations
  - SC Regulation 61-62.5, Standard No. 2 – Ambient Air Quality Standards
  - SC Regulation 61-62.5, Standard No. 4 – Emissions from Process Industries
  - SC Regulation 61-62.5, Standard No. 8 – Toxic Air Pollutants
  - SC Regulation 61-62.6 – Fugitive Dust
- Permit Requirements
  - Maintain records and submit reports
  - Periodic source testing for VOCs and HAP
  - Best Management Practices Plan (dust control)
  - Operation and Maintenance Plan

# Next Steps

**Comments will be accepted through 5:00 pm July 1, 2021.**

Next, DHEC will:

- Review all comments received
- Provide written responses to all comments
- Make a final decision
- Final decision date begins 15-day appeal period



# How to Comment

Submit comments by mail or email through

5:00 pm July 1, 2021 to:

**BAQ Public Notice Coordinator  
DHEC/BAQ**

**2600 Bull Street  
Columbia, SC 29201**

**[AirPNcomments@dhec.sc.gov](mailto:AirPNcomments@dhec.sc.gov)**

*Application and draft permit can be found at:  
[www.scdhec.gov/Effingham-Pellets](http://www.scdhec.gov/Effingham-Pellets)*

# CONTACT US

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**Permit Writer, Sandhills Section**

**Bureau of Air Quality – Air Permitting Division**

**(803) 898-0968**

**[tuckerkd@dhec.sc.gov](mailto:tuckerkd@dhec.sc.gov)**

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- Click the 'Hand Raise' icon



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