



South Carolina Department of Health and Environmental Control

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**RDA, LLC**  
**Public Hearing**

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**July 26, 2018**  
**6:00 PM**



South Carolina Department of Health and Environmental Control

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# Mine Operating Permit Application and Draft Permit

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# Permitted Area Details

- 968.4 acres of total permitted area
  - 594.7 acres of affected area
    - Pit is limited to 53.2 acres (segment 6) until DHEC approves more pit acreage
  - 215.6 acres of buffer
  - 158.1 acres of future pit reserves
- Proposed maximum depth:
  - 65 ft. below ground surface (21 ft. below sea level)

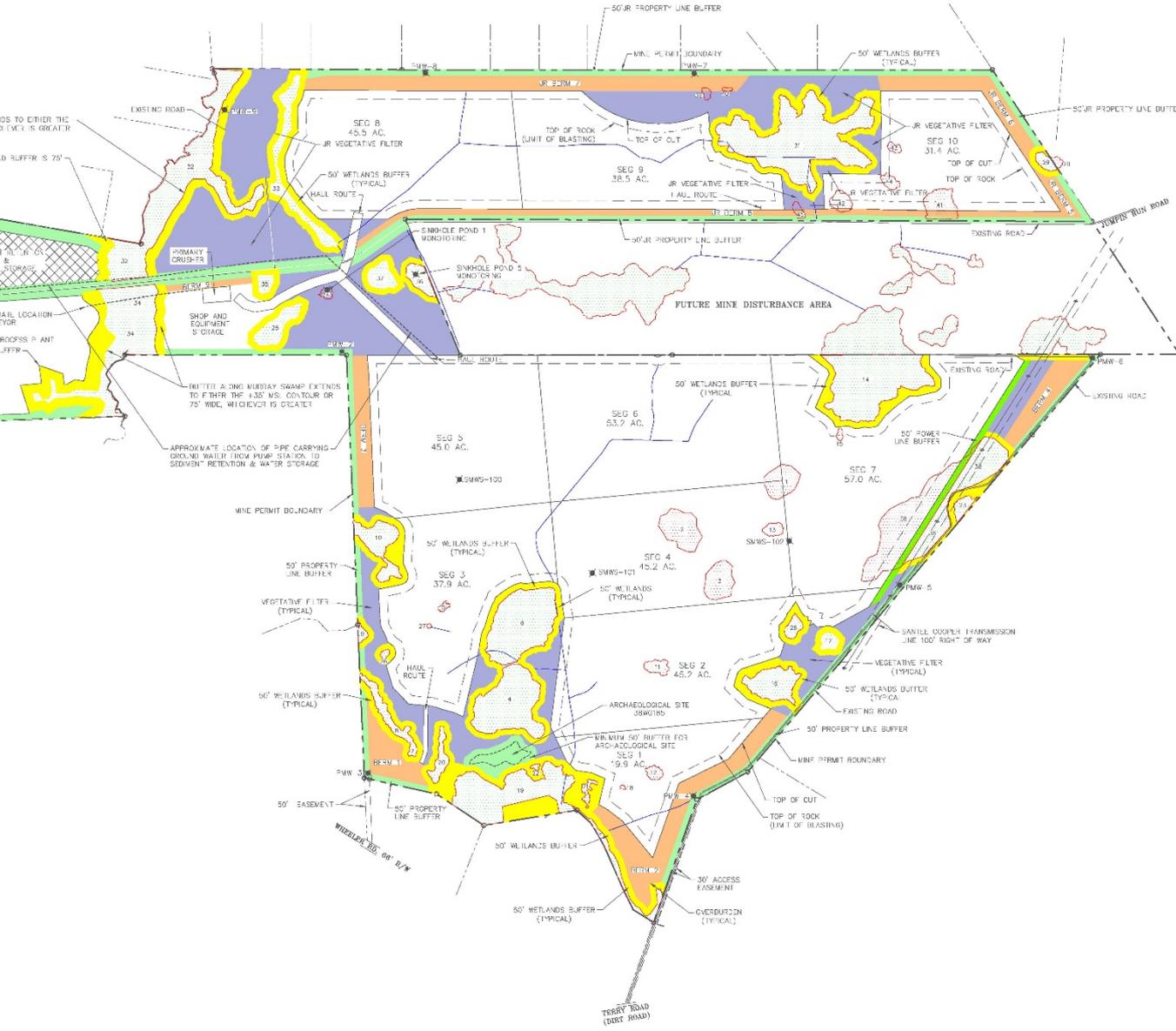
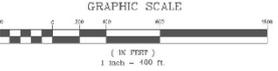
# Mining Process

- Process includes:
  - Clearing, stripping, berm construction, dewatering, blasting, processing
- Dewatering Steps:
  - Top of rock determination, water well inventory, compliance monitoring wells, sinkhole monitoring
- Duration of proposed operation:
  - Approx. 20 years



SEABOARD ROAD 06TR W  
 PARTIAL TO THE INTERSECTION OF  
 JUMPIN RUN ROAD (DPT RD)  
 TO THE TOWN OF ANDERSON

- LEGEND**
- AFFECTED AREAS (LAND DISTURBED BY MINE ACTIVITY)**
- PT, PROCESS PLANT, HAUL ROADS & SHOP
  - BERMS
  - VEGETATIVE FILTERS
  - WETLANDS TO BE MAINT
  - WETLAND DUMBER
- BUFFERS (PROTECTED LAND)**
- PROPERTY BUFFERS
  - ARCHAEOLOGICAL SITE
  - PROTECTED WETLAND BUFFERS
  - PROTECTED WETLANDS
  - SEDIMENT RETENTION & WATER STORAGE
  - PARALLEL MONITORING WELL STATION
  - SINKHOLE MONITORING WELL STATION



**REVISIONS**

By	Date	Description
BC	7/20/17	ADD BUFFER TO WETLANDS PER PERMITS W-1 AND W-2
BC	8/1/17	ADD BUFFER TO WETLANDS PER PERMITS W-1 AND W-2
BC	9/20/17	ADD BUFFER TO WETLANDS PER PERMITS W-1 AND W-2
BC	2/22/17	ADD BUFFER TO WETLANDS PER PERMITS W-1 AND W-2
BC	2/22/17	ADD BUFFER TO WETLANDS PER PERMITS W-1 AND W-2
BC	2/22/17	ADD BUFFER TO WETLANDS PER PERMITS W-1 AND W-2

**Kennedy Consulting Services, LLC**  
 Craig Kennedy, P.E.  
**KCS**  
 483 Saddle Court Livingston, SC 29027 • P.O. Box 344 • York, SC 29033  
 Tel: 803.799.1113 • Fax: 803.799.1113 • Email: info@kcsllc.com

**RDA, LLC**  
 RDA Mine  
 Prepared for  
**RDA, LLC**  
 Anderson Township, Williamsburg County, South Carolina

Project No.: KCS 16-88  
 Date: 01-24-17  
 Approved by: RCK  
 Drawn by: B.C.  
 Scale: 1"=400'

# Reclamation

- Mine site will be restored to lakes and grasslands
- All soil berms and affected area will be vegetated
- All equipment and scrap materials will be removed and areas restored to grasslands
- Final slopes will be 3:1 (horizontal to vertical)

# Mining Permitting Timeline

<b>June 21, 2017</b>	Application received
<b>August 9, 2017</b>	Public notice of application
<b>Nov 30, 2017</b>	Public Information Drop-in
<b>June 20, 2018</b>	Notice of Public Hearing and Draft Permit
<b>July 26, 2018</b>	Public Hearing

# Draft Permit Conditions

- Wetland Buffers and Murray Swamp Crossing
- Water Well Inventory
- Perimeter Compliance Monitoring
- Sinkhole Monitoring and Contingency Plan
- Pit Water Flow Monitoring
- Domestic or Agricultural Water Supply Well Protocol
- Wildlife Monitoring Requirements



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# Draft Synthetic Minor Air Construction Permit

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# Project Overview

- Stone Processing Plant
  - Maximum Permitted Production Rate
    - 500 tons per hour
  - Process Equipment
    - Crushers
    - Screens
    - Conveyors
- Fugitive Dust Sources
  - Plant Haul Roads
  - Customer Roads
  - Storage Piles

# Draft Air Construction Permit

- Primary pollutant is particulate matter
- Applicable State and Federal Regulations
- Compliance demonstration with air standards
- Minimization and control of fugitive dust

# Air Modeling Results

Pollutant	Predicted Facility Concentration ( $\mu\text{g}/\text{m}^3$ )	Background Concentration ( $\mu\text{g}/\text{m}^3$ )	Total Concentration ( $\mu\text{g}/\text{m}^3$ )	Ambient Air Quality Standard ( $\mu\text{g}/\text{m}^3$ )	Meets Standard?
PM <sub>10</sub> 24-hr	85.3	49.0	134	150	Yes
PM <sub>2.5</sub> 24-hr	13.8	18.0	32	35	Yes
PM <sub>2.5</sub> Annual	1.8	8.4	10	12	Yes

# Dust Control Methods Onsite

- Water sprays
- Water trucks
- Paving plant roads
- Fugitive dust control plan



# Contact Information

## **Joe Koon, Section Manager**

Mining and Reclamation Section  
Bureau of Land and Waste Management  
803-898-1371  
[koonjm@dhec.sc.gov](mailto:koonjm@dhec.sc.gov)

## **Mareesa Singleton, Permit Writer**

Air Permitting Division  
Bureau of Air Quality  
803-898-4113  
[singlemj@dhec.sc.gov](mailto:singlemj@dhec.sc.gov)

# Comment Period

- **Comment period ends at 5pm on August 10, 2018**
- All comments considered and, if necessary, additional information requested from applicant
- Final permit decision will be sent to all interested parties with a summary response to comments