

Dorchester Logistics - Egeria Mine Permit Modification - Revisions.

Craig Kennedy <craigkennedy.kcs@gmail.com>

Thu 3/4/2021 5:39 PM

To: Hamilton, Wendy <hamiltws@dhec.sc.gov>; Koon, Joe <koonjm@dhec.sc.gov>

 2 attachments (549 KB)

2-Support Info on DLI Egeria Mine Permit Modification 20-1 - rev 3-3-21.pdf; 3-Dorchester Logistics-DLI Egeria Mine Map (7)-11X17 revised 3-1-21.pdf;

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Ms Hamilton,

Please find attached several revised documents on the Dorchester Logistics - Egeria mine, mine permit modification.

The planned sediment basin in segment 2 has been changed to a mine sump where a pump will transfer water from segments 2 - 4 to segment 1 for enhanced sediment control.

The support document was modified on page 3, items #4 & #10.

If you have any questions, please don't hesitate to call.

Craig

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**SUPPORT INFORMATION TO MINING FORM MR-1300
APPLICATION TO MODIFY A MINE OPERATING PERMIT AND/OR RECLAMATION PLAN
DLI Plantation Egeria Mine – Mine Permit No. I-002170**

The information provided in this document is organized in the same manner as the SC Department of Health and Environmental Controls' application for a Mine Operating Permit – MR-400. This is not intended to be the official signed application (Form MR-1300 is the signed form for mine permit modifications) but only to serve as vehicle to present information in a logical and familiar format for review by SCDHEC staff.

I. APPLICANT INFORMATION

Specific information on company, addresses, telephone numbers refer to Form MR-1300.

Name of company personnel and their title to be the contact for official business and

correspondence: Todd Muckenfuss, President

Ownership of land:

A. Name of landowner: No change from current permit. Hugh & Marlene Long

Landowner's Address: 50 Central Island St: Unit 367 Daniel Island
Street **and** PO Box City

SC 29492
State Zip Code Telephone Number

B. Date lease became effective: _____

II. GENERAL CHARACTERISTICS OF MINE:

1. Material(s) to be mined: No change

2. Mining Method

A. List equipment to be used for mining and provide a brief description as to how the mine will be operated.

Same equipment will be used as currently permitted.

B. Will there be a process plant located at the mine site within the boundary of the permitted area? If so, please provide a brief description of the plant equipment and function of the plant.

No

3. Do you anticipate blasting as part of the mining operation? _____ Yes No

4. Has this site been mined in the past? If so, please indicate the present condition of the land.

The section of the tract of land where mining will expand has not been mined in the past.

5. What is the expected maximum depth of this mine? Provide any addition information about the final depth of the mine that would be useful to the Department. (Ex. Final depth of pit will be level to adjacent road, elevation above Mean Sea Level (MSL)).

No change from current mine permit.

III. DETERMINATION OF PERMITTED ACREAGE, AFFECTED ACREAGE AND RECLAMATION BOND

1. Total acres for which permit is being requested:

Total acreage within expanded mine permit area is 102.0.

2. Acres in the mine permit will be change as described below:

Acres added by modification: Affected 38.3 Buffer 36.0 Fut. Res. 0.0 Permitted 74.3

Current Acres under Permit: Affected 24.0 Buffer 3.7 Fut. Res. 0.0 Permitted 27.7

New Permit Acres w/mod: Affected 62.3 Buffer 39.7 Fut. Res. 0.0 Permitted 102.0

3. Check acreage to be bonded:

Current bond is single bond in the amount of \$25,000.

Applicant may submit a reclamation cost estimate for mines that will affect greater than 25 acres. Estimate should be based upon requirements in Regulation 89-20 B.

Estimate is being developed and will be submitted at the end of DHEC's technical review.

4. Will this operation be covered by a blanket bond? If so, please list your company's other permitted mining operations in South Carolina giving mine names, permit numbers and state the present reclamation bond amount on file with this Department.

No

5. Number of years for which this permit is requested. The requested number of years the permit is requested should coincide with the Schedule of Reclamation as proposed by the applicant in the RECLAMATION PLAN, Form MR-500. Life of Mine Permit years

No change

IV. PROTECTION OF NATURAL RESOURCES*

1. Will there be a waste water treatment system at your mine site? Yes x No

2. Will there be a point source discharge from your plant or mine requiring an NPDES Permit? If no, provide information as to how stormwater and groundwater will be managed.

 x Yes No

No processing plant is currently on-site and adding a process plant is not included in this modification. Only groundwater and stormwater will be discharged and only when necessary.

3. Will there be air contaminant emissions from your plant or mine requiring an Air Quality Permit?

Yes No

4. Do you anticipate pumping of groundwater? If yes, describe. Yes No

To facilitate mining, the shallow groundwater will be lowered with rim ditches and pumping. Stormwater and groundwater from segments 2 – 4 will be transferred to segment 1 via HDPE pipe line. Segment 1 is approximately 24 acres in area and 20 feet deep. This volume provides significant retention capacity that will minimize the potential for discharges from the mine. If it becomes necessary to discharge pit water through outfall 001, the increased water volume in segment 1 greatly increases the sediment retention time that will ensure good water quality in the discharge.

5. Will jurisdictional wetlands be affected, filled or altered in any fashion that will require a Section 404 Dredge and Fill Permit? Yes No

Wetland delineation was performed and submitted to the US Army Corps of Engineers for preliminary jurisdictional determination (PJD). The Corps' response, SAC-2020-01078, and wetland delineation documents are attached to this application.

Wetlands will be avoided and protected with 50 upland buffers.

6. Are there any known cultural or historic sites located within the proposed area to be permitted?

Yes No

7. Will any part of the permitted area be used as a solid waste disposal site? If no, describe how waste, trash, scrap metal material, garbage will be handled. Yes No

No change from current permit.

8. Describe the wildlife or freshwater, estuarine or marine fisheries in the area of the mining operation. Also provide information about any ponds and/or streams that may be located in the proposed permitted area.

No change from current permit.

9. State the land cover and land uses on the permitted land area and contiguous tracts of land to the permitted land area.

No change from current permit.

10. Describe measures to be taken to insure against (1) substantial deposits of sediment in neighboring streams, rivers lakes or ponds; (2) landslides; (3) acid water formation and discharge. Attach any supporting documents (engineering designs, calculations, sediment & erosion control plan, setbacks, geotechnical information, acid prediction test etc.) to this application.

(1) Pit water from segments 2 – 4 containing groundwater comingled with stormwater, will be transferred to segment 1 to hold or if necessary, discharge through outfall 001. Segment 1 is approximately 24 acres in area and 20 feet deep. With this volume available to receive pit dewatering from segments 2 – 4, it will provide significant holding capacity that will greatly minimize potential for discharges from the mine. If it becomes necessary to discharge pit water through outfall 001, the increased water volume in segment 1 greatly increases the sediment retention time that will ensure good water quality in the discharge. (2) No change from current permit.

(3) No change from current permit.

V. SAFETY

1. Describe methods to be used during the time the mine operating permit is active to prevent physical hazards to persons and to any neighboring dwelling, house, school, church, hospital, commercial or industrial building or public road. If applicable, provide the zoning designation for the property to permitted.

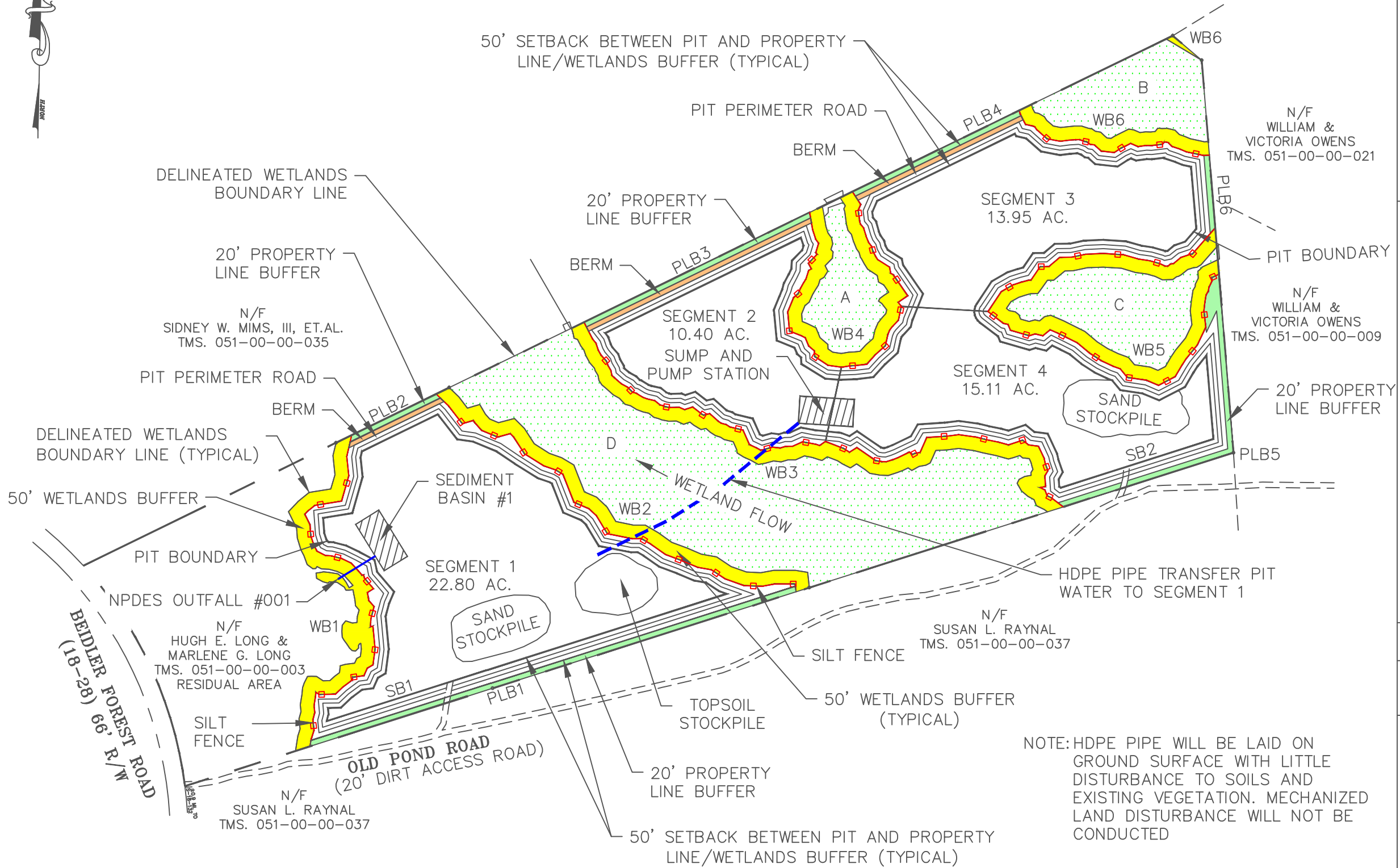
No change from current permit. No trespassing and warning signs will be posted at the permit boundaries.

2. Describe methods to be used to prevent an adverse effect on the purposes of a publicly- owned park, publicly-owned forest, or publicly-owned recreation area. If any of these facilities are within one (1) mile of the proposed affected property, please locate on mine location map and the submitted U.S.G.S topographic map for this application.

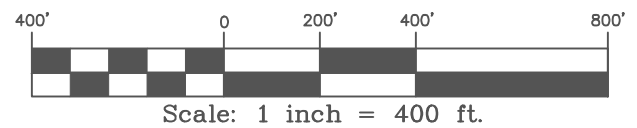
No change from current permit.

3. Describe measures to be taken for screening the operation from view from public highways, public parks or residential areas.

The mine expansion will be 2,300 feet east of Beidler Forest Road (S-18-28) and will not be visible from Beidler Forest Road due to distance and vegetation.



NOTE: HDPE PIPE WILL BE LAID ON GROUND SURFACE WITH LITTLE DISTURBANCE TO SOILS AND EXISTING VEGETATION. MECHANIZED LAND DISTURBANCE WILL NOT BE CONDUCTED



DLI Plantation Egeria Mine

Mine Map

Prepared for
Dorchester Logistics, Inc.

Dorchester County, South Carolina

Kennedy Consulting Services, LLC
Craig Kennedy, P.G.



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No.	Revision	Date	By
1	Add berms on north boundary	3/1/21	RCK
2	Remove sediment basin 2; add pipeline	3/1/21	RCK
Project No. KCS 20-132		Date: 7-20-20	
Approved by: RCK		Drawn by: BC	
Sheet No. 1 of 2			