

**MODIFICATION to MINE PERMIT I-002170**

**DLI Plantation Egeria Mine**

**Dorchester Logistics, Inc.**

**LOCATION INFORMATION\*:**

Dorchester County

TMS# 051-00-00-003

Latitude: 33.196484

Longitude: -80.3493267

**APPLICATION INFORMATION\*:**

1. Intent to Modify Advertisement
2. Modification Request
3. Reclamation Schedule
4. General Coastal Zone Consistency (GCZC) Certification Request Forms

*\*Information included is provided by the applicant; details may change with the public notice/technical review process. No decision has been made on this modification.*

South Carolina Department of Health and Environmental Control (DHEC)

## NOTICE OF INTENT TO MODIFY A MINE OPERATING PERMIT

Dorchester Logistics, Inc.  
DLI Plantation Egeria Mine  
Dorchester County, South Carolina  
(DHEC Mine Permit I-002170)

Date: November 4, 2020

Dorchester Logistics, Inc. has applied to DHEC to modify the DLI Plantation Egeria Mine, Permit I-002170. The company requests to increase the permitted acreage by 74.6 acres (to 102.3 ac.) for the mining sand, sand/clay and topsoil. The mine is located in Dorchester County (TMS# 051-00-00-003) approximately 5.8 miles east of Harleyville, SC. Specifically the site is located approximately 0.8 mile north-northeast of the junction of SC Secondary Highways S-18-28 (Beidler Forest Road) and S-18-132 (Mallard Lake Road). The site is north of Old Pond Road 0.1 mile north-northeast of its junction with Beidler Forest Road. Reclamation will be to grasslands and lakes. The mine permit modification request and related documents are available for review on DHEC's website at [www.scdhec.gov/publicnotices](http://www.scdhec.gov/publicnotices).

DHEC is currently conducting a technical review of the modification request and related documents and will accept written comments through **December 4, 2020**. Public comments may impact DHEC's permit decision by giving staff additional information to consider and could also be used when determining specific terms and conditions the company must follow if a permit is issued. Where there is a significant amount of public interest, DHEC may hold a public meeting.

Please contact Wendy Hamilton (information below) to be added to DHEC's mailing list for this site. For questions, additional information, or to submit written comments, please contact:

Wendy Hamilton  
DHEC – BLWM  
2600 Bull Street  
Columbia, SC 29201  
Phone: (803) 898-1368  
E-Mail: [hamiltws@dhec.sc.gov](mailto:hamiltws@dhec.sc.gov)

DHEC is also conducting a Coastal Zone Consistency (CZC) review due to the mining project's location within the S.C. Coastal Zone. For questions or additional information about the CZC review, please contact Holli Dawn Martin at (843) 953-0860, or by e-mail at [martinhd@dhec.sc.gov](mailto:martinhd@dhec.sc.gov).

Please bring this notice to the attention of persons you know who may be interested in this matter.



Mining Form MR-1300

S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
BUREAU OF LAND AND WASTE MANAGEMENT
DIVISION OF MINING AND SOLID WASTE PERMITTING
2600 BULL STREET, COLUMBIA, SC 29201
PHONE:803-898-1362 FAX: 803-4-898-1426 EMAIL: AskMines@dhec.sc.gov

APPLICATION FOR MODIFYING A MINE OPERATING PERMIT AND/OR RECLAMATION PLAN

Name of Mine: DLI Plantation Egeria Permit Number: I-002170

Name of Company: Dorchester Logistics, Inc. County: Dorchester

Home Office Address: 261 Seven Mile Rd./PO Box 365 Harleyville SC 29448
(Street or P.O. Box) (City) (State) (Zip)

Telephone: 843-462-2600

Mine Office Address: Same
(Street or P.O. Box) (City) (State) (Zip)

Telephone: Same

Location of Mine: S-18-28 (Beidler Forest Road) Harleyville
(State or County Highway) (nearest town or city)

REASONS FOR REQUESTING MODIFICATION

Change in the Land Use for Which Affected Land Will Be Reclaimed

Segment or Area: From: To:

Describe:

Change in Reclamation Practices:

Segment or Area: From: To:

Describe:

Change in Schedule of Reclamation

Segment or Area: From: To:

Describe:

Increase Land Area (attach new map)

Segment or Area: Segs 2 - 4 From: AA 24.0 acs; PA 27.7 acs To: 62.3 acs; PA 102.0 acs

Describe: See Support Information document for details.

Decrease Land Area (attached new map)

Segment or Area: From: To:

Describe:

**Decrease Land Area** (attach new map)

Segment or Area: \_\_\_\_\_ From: \_\_\_\_\_ To: \_\_\_\_\_

Describe: \_\_\_\_\_

**Other**

Describe: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

I hereby request modification of the above permit and/or reclamation plan and certify that the information originally submitted on the application has not changed (except as provided herein above) and that this mine is now in compliance with the South Carolina Mining Act.



Signature of Operator or his Authorized Representative

owner

Title

9-17-2020

Date

As surety, hereby consents to the above referenced modification and acknowledges and agrees that its bond shall remain in effect in the event the modification is approved (CONSENT TO BE OBTAINED BY OPERATOR).

ATTEST:

\_\_\_\_\_  
Principal Not Applicable (L.S)

BY: \_\_\_\_\_ (L.S.)  
Secretary or Assistant Secretary

\_\_\_\_\_  
Title (L.S)

(Affix Corporate Seal if applicable)

\_\_\_\_\_  
Surety (L.S)

\_\_\_\_\_  
Licensed South Carolina Agent

\_\_\_\_\_  
Attorney-in-fact (L.S)

Approved: \_\_\_\_\_

Date: \_\_\_\_\_

**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. Sediment basin will be excavated and any pit and/or stormwater discharged will be route through the sediment basin to trap sediment before discharge. As mining progresses, pit water from the active mine will, as feasible, be routed into previously mined segments and only discharged as necessary to receiving stream.

**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) Sediment basin will be excavated and any pit and/or stormwater discharged will be route through the sediment basin to trap sediment before 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.



20. Section 48-20-40(16)(1) of the S.C. Mining Act requires a time schedule, including the anticipated years for completion of reclamation by segments. This time schedule should meet the requirements of Section 48-20-90 of the Mining Act.

**SCHEDULE FOR IMPLEMENTING CONSERVATION AND RECLAMATION PRACTICES**

<i>Conservation &amp; Reclamation Practices</i>	<i>Segment # or Area</i>	<i>Planned</i>		<i>*Applied</i>		<i>Notes</i>
		<i>Amount</i>	<i>Year</i>	<i>Amount</i>	<i>Month/Year</i>	
Excavation initiated under GP1-001844	GP1	4.0				GP1 incorporated
Install survey control markers	PA		GP1			See Note 1, maintain LOM
Flag buffer area	Pit 1		2017			See Note 2, maintain LOM
Post Warning signs	Pit 1		2017			Maintain LOM
Install stormwater BMPs along wetlands, access road; basin	Pit 1		2017			See Note 3
Clear/ stockpile topsoil	Seg 1	24.0	2017-2024			See Note 4
Remove/ stockpile overburden	Seg 1	24.0	2017-2024			See Note 5
Excavate	Seg 1	24.0	2017-2024			See Note 5
Grade final side slopes 3H:1V	final banks Seg 1	~4.0	2017-2024			See Note 6
Topsoil, fertilize, seed slopes	final banks Seg 1	~4.0	2017-2024			See Note 7
Grade out sediment basin	basin Seg 1		2024			once mining is completed
Inspect, repair, maintain	final banks Seg 1	24.0	2017-2024			See Note 8

**Notes:**

1. Two permanent survey markers within the permitted area shall be located at least 100 feet apart as required in R.89-130.
2. Markers should be located prior to the start of mining. Permanently flag buffers associated with property line and wetlands
3. Best Management Practices shall be installed and maintained as necessary to ensure stormwater is retained on site. Water discharged from the mine must be discharged through an outfall regulated by a NPDES permit.
4. Enough topsoil for reclamation must be stockpiled at the site
5. Minimize the amount of disturbed acreage to reduce the potential for offsite sediment and erosion control concerns.
6. Slopes shall be graded as excavations progress.
7. Topsoil placement, fertilizing, seeding of final banks shall be done as soon as feasible
8. Reclamation/ vegetation shall be inspected on a regular basis and corrective measures taken to prevent erosion of final slopes

AA – Affected Area BMPs – Best Management Practices LOM – Life of Mine PA – Permitted Area PL – Property Line ST – Sediment Traps SW – Stormwater TS – Topsoil WL - Wetlands

\* Completed by the Department

## Egeria Mine – Modification 20-1

20. Section 48-20-40(16)(1) of the S.C. Mining Act requires a time schedule, including the anticipated years for completion of reclamation by segments. This time schedule should meet the requirements of Section 48-20-90 of the Mining Act.

### SCHEDULE FOR IMPLEMENTING CONSERVATION AND RECLAMATION PRACTICES

Conservation & Reclamation Practices	Segment or Area	Planned		*Applied		Notes
		Amount	Year	Amount	Month/Year	
Flag buffer, post warning signs	Segs 2 – 4	62.3 ac	2021			
Install stormwater BMPs along wetlands, road & Sediment Basin 2	Segs 2 – 4	62.3 ac	2021 - end of mining			Starting with segment 2 and continuing through segs 3 & 4 in advance of mining
Strip & stockpile topsoil & Excavate	Seg 2	10.4 ac	2021			
Grade final side slopes to 3:1, place topsoil, fertilize & seed	Seg 2	2.0 ac	2024			Reclamation to Pond
Strip & stockpile topsoil & excavate	Seg 3	14.0 ac	TBD			
Grade final side slopes to 3:1, place topsoil, fertilize & seed	Seg 3	2.1 ac	TBD			Reclamation to Pond
Strip & stockpile topsoil & excavate	Seg 4	15.1 ac	TBD			
Grade final side slopes to 3:1, place topsoil, fertilize & seed	Seg 4	2.7 ac	TBD			Reclamation to Pond
Inspect, repair and maintain vegetation and pond depths until accepted by DHEC	Segs 2 - 4	62.3 ac	End of Mining			Final Reclamation

AA – Affected Area    BMPs – Best Management Practices    Fert. – Fertilize    LOM – Life of Mine    MW - Monitoring Well    PA – Permitted Area  
 PL – Property Line    SB – Sediment Basin    ST – Sediment Traps    SW – Stormwater    TS – Topsoil    WL – Wetlands

\* Completed by the Department



## DHEC OCRM State Coastal Zone Consistency (CZC) Certification Request Form

**Project Name:**

DLI Plantation "Egeria" Mine - Modification to Mine Operating Permit

**Applicant Information:**

Contact Name Todd Muckenfuss  
Address 261 Seven Mile Road, Harleyville, SC 29448  
Phone # 843-462-2600  
E-mail tmuck74@gmail.com

**Agent/Engineer Information:**

Contact Name Craig Kennedy  
Address PO Box 364, Irmo, SC 29063  
Phone # 803-960-2562  
E-mail craigkennedy.kcs@gmail.com

**Site details:**

Location/Address:

Beidler Forest Road/Old Pond Rd

County: Dorchester

TMS: 051-00-00-003.000

**Type of Permit Requested:**

(ex. Landfills, Mining, Wastwater, etc.)  
Modified Mine Operating Permit  
NPDES General Permit for "Mining Discharges" SCG 730000

**Name of Permitting Authority(s):**

(ex. DHEC Bureau of Water)  
Bureau of Land and Waste Management  
Bureau of Water

**Description of Proposed Activity(s):**

● including total disturbed area, name of and distance to nearest waterbody, and onsite non-jurisdictional wetland impacts and acreage.

The Egeria Mine Permit is being modified to expand the mine area. The total disturbed area for Egeria Mine will increase from 24.0 acres to 62.3 acres. A sediment basin will be installed in the expanded mine area and water discharged from the mine will be routed through the basin, decanted from the water surface and pumping ceases when the floating intakes is within 2 feet of the sump bottom. Discharge water will be monitored as per requirements of the NPDES General Permit for Discharges Associated with Nonmetal Mineral Mining Facilities. Receiving waters for any discharge will be Four Hole Swamp.

Wetlands within the expanding mine area for the Egeria mine were delineated and a PJD issued by the Corps of Engineers (SAC 2020-01078). Wetlands will be protected from mining with a 50-foot upland buffer. No impacts to jurisdictional or non-jurisdictional wetlands will occur.

All applicable Project Policy Checklist(s) that apply to the proposed project must be submitted with this request form. (See [www.scdhec.gov/environment/ocrm/czc](http://www.scdhec.gov/environment/ocrm/czc) for available Policy Checklists)

Submitted By:

Date:

10-27-2020



## Policy Group III - Coastal Industries

Project Name: DLI Plantation Egeria Mine - Permit Modification 20-1

TMS: Dorchester TMS 051-00-00-003.000

The Agency's Coastal Zone Consistency (CZC) certification review of all activities within the Coastal Zone that require a State permit will be based on the policies contained within the project based checklists. For the CZC request to be complete, you must answer the questions contained within the policies segment relative to your project by checking off all that apply. More than one checklist may apply to your project based on the plan proposal. For example, a road or highway project might also require dredging and filling of coastal wetlands.

### A. **Agriculture:**

#### **Required: Will your proposed agriculture operation project or plans...**

- |  |
|--|
| a) <input type="checkbox"/> avoid impacts to productive tidal salt, brackish and freshwater wetlands by filling or other permanent alteration, including ditching for drainage from uplands?<br><br><input type="checkbox"/> or is this N/A?   |
| b) <input type="checkbox"/> (for filling, ditching, clearing, or excavation of wetlands) demonstrate mitigation sites or practices to offset the losses of wetlands consistent with the Division's Mitigation Guidelines? The types of mitigation include wetland buffers, creation of wetlands, and restoration of existing wetlands, offsite mitigation, and mitigation banking. Provide a summary of mitigation details on an attached document.<br><br><input type="checkbox"/> or is this N/A?  |
| c) <input type="checkbox"/> minimize negative impacts to water quality from sedimentation and erosion utilizing conservation techniques, including:<br>i. methods or techniques such as contouring to reduce direct surface water runoff in to adjacent wetlands or water bodies;<br>ii. maintenance and utilization of the natural drainage pattern of the land is encouraged as much as possible;<br>iii. use of buffer strips of natural vegetation along the edge between watercourses and cultivated soils is encouraged;<br><br><input type="checkbox"/> or is this N/A? |
| d) <input type="checkbox"/> include best management practices (and any resultant regulations) designed to control nonpoint source runoff developed as part of the 208 Water Quality Planning process through the local Council of Governments?<br><br><input type="checkbox"/> or is this N/A?   |
| e) <input type="checkbox"/> be consistent with the Priority of Uses of each listed Geographic Areas of Particular Concern (GAPCs) as discussed in the Geographic Areas of Particular Concern (GAPCs) Policies and Priority of Uses document located on the Resources section of the CZC webpage?<br><br><input type="checkbox"/> or is this N/A?   |

#### *Recommended policies to be considered for agriculture projects in the Coastal Zone:*

- Encouraging the utilization of detailed soil surveys prepared by the appropriate Federal and State Agencies whose responsibility is soil conservation;*
- That local land use plans considerations for protecting agricultural lands from premature or undesirable conversion into other development activities;*
- Encouraging the full implementation existing laws by local governments within the coastal zone to allow property tax incentives to protect farmlands from conversion to other uses;*
- That the soil testing facilities at Clemson Extension be utilized to determine the correct types and amounts of fertilizers to be applied to agricultural lands.*



As applicant or agent, having completed all appropriate checklists and having read the applicable policies, I certify that this project is consistent with the South Carolina Coastal Zone Management Program based on the information outlined above and supplemental information attached.

Signature and date

B. **Forestry**

**Required: Will your proposed forestry operation project or plans...**

a)  encourage good forest management practices in order to maintain a supply of good quality timber into the future while protecting other forest values?

or is this N/A?

b)  avoid the disruption of salt, brackish or freshwater marshes for drainage or access ways where no feasible alternatives exist or provide mitigation measures as identified in the policies for each related activity? Explain the feasible alternatives that will be implemented in the summary section below.

or is this N/A?

c)  encourage erosion control methods for all phases of timber operations in order to reduce excessive erosion and sedimentation and avoid disruption to hydrologic cycles?

or is this N/A?

d)  include any onsite processing of timber products consistent with the Manufacturing Policies contained in Chapter IV of the CZMP?

or is this N/A?

e)  be consistent with the Priority of Uses of each listed Geographic Areas of Particular Concern (GAPCs) as discussed in the Geographic Areas of Particular Concern (GAPCs) Policies and Priority of Uses document located on the Resources section of the CZC webpage?

or is this N/A?

*Recommended policies to be considered for forestry project in the Coastal Zone:*

- a. *Timber harvesting should be carried out in such a manner as to minimize effects on and protect soils, watersheds, aesthetics, wildlife, and recreational values. If damage does occur, restoration plans should be developed and carried out within a reasonable time;*
- b. *Local land use plans should include retaining prime forest areas for sustained timber productivity in the future.*

**Required:**

As applicant or agent, having completed all appropriate checklists and having read the applicable policies, I certify that this project is consistent with the South Carolina Coastal Zone Management Program based on the information outlined above and supplemental information attached.

Signature and date

10-27-2020

C. **Mineral Extraction (Mining)**

**Required: Will your mining activity project or plans...**

a)  require applicants for mining permits must submit an approved reclamation plan as required by the Agency's Mining and Reclamation Section under the S.C. Mining Act?

or is this N/A?

b.  exclude dredge or strip mining operations in wetland areas unless no feasible alternatives exist and the benefits of mining outweigh the adverse impacts and is consistent with the Dredging Policies contained in Chapter VIII of the CZMP?

or is this N/A?

c.  prevent direct stormwater discharge from upland sites into adjacent wetlands or water bodies to minimize negative impacts on water quality that includes the use of vegetated buffer areas, silt curtains or other erosion or sedimentation control methods?

or is this N/A?

d.  be consistent with the Priority of Uses of each listed Geographic Areas of Particular Concern (GAPCs) as discussed in the Geographic Areas of Particular Concern (GAPCs) Polices and Priority of Uses document located on the Resources section of the CZC webpage?

or is this N/A?

*Recommended policies to be considered for mineral extraction project in the Coastal Zone:*

a. *Provision of scenic buffer areas around active mining sites;*

b. *That study of mineral resources be made before land is committed to development, and those areas found to contain significant mining resources be identified in local land use plans.*

**Required:**

As applicant or agent, having completed all appropriate checklists and having read the applicable polices, I certify that this project is consistent with the South Carolina Coastal Zone Management Program based on the information outlined above and supplemental information attached.

Signature and date



10-27-2020

D. **Manufacturing**

**Required: Will your manufacturing activity project or plans...**

- a.  require the facility to be located on the waterfront based on an activity that would benefit from being located on shorefront areas unless there are no feasible alternatives?

or is this N/A?

- b.  exclude the filling or other permanent alteration of productive fresh, brackish and saltwater wetland areas unless no feasible alternatives exist and any substantial environmental impact can be minimized?

or is this N/A?

- c.  be consistent with the Priority of Uses of each listed Geographic Areas of Particular Concern (GAPCs) as discussed in the Geographic Areas of Particular Concern (GAPCs) Polices and Priority of Uses document located on the Resources section of the CZC webpage?

or is this N/A?

- d.  (for filling, ditching, clearing, or excavation of wetlands) demonstrate mitigation sites or practices to offset the losses of wetlands consistent with the Division's Mitigation Guidelines? The types of mitigation include wetland buffers, creation of wetlands, and restoration of existing wetlands, offsite mitigation, and mitigation banking. Provide a summary of mitigation details on an attached document.

or is this N/A?

- e.  reduce erosion and sedimentation and limit the impacts from direct stormwater discharge into adjacent water bodies and wetlands by designing manufacturing operations away from sensitive areas by demonstrating the following means of reducing these problems and use of these methods where appropriate:
- i. provide a buffer of natural vegetation between the facility and any wetland by utilizing a sufficient visual screen, a noise buffer, a purification system for stormwater runoff, or a protective area for more ecologically sensitive shoreline areas, especially fringing wetlands;
  - ii. control stormwater runoff, soil erosion, and accidental placement of sediments in wetland areas during site preparation;
  - iii. employ the use of permeable surfaces in parking lots and bulk storage areas to provide water recharge areas and minimize the effects of stormwater runoff;
  - iv. retain open space or natural (undisturbed) areas around manufacturing sites as buffer zones and recharge areas?

or is this N/A?

- f.  avoid or minimize the disruption of wetlands by locating the industrial facility where waste discharges present the least ecological threat particularly in areas with good tidal flushing and water circulation and along watercourses with relatively low water quality classifications? (The goal is to meet applicable water quality and effluent limitation standards of the EPA and DHEC, under the National Pollution Discharge Elimination System (NPDES), Sections 401 and 402 of the Federal Water Pollution Control Act (PCA) Amendments.)

or is this N/A?



g.  meets applicable State and Federal air pollution standards and controls, as based on the National Clean Air Act, as amended?

or is this N/A?

h.  consider groundwater resources utilization either in the processing or effluent discharge stages of the production process by:

i. meeting existing standards and/or management programs of the Agency's BOW Groundwater Permitting;

ii. prevent saltwater intrusion and land subsidence, to the extent feasible;

iii. provide natural vegetated areas on the site where aquifer recharge can occur to mitigate the impacts of groundwater withdrawals, where feasible?

or is this N/A?

i.  meet applicable flood plain management and construction requirements based on the Federal Flood Insurance Program when located in flood zone areas?

or is this N/A?

j.  be designed so that the facility is located on maintained channels (to the maximum extent feasible) to reduce the need for dredging of new channels for new water-dependent industries?

or is this N/A?

k.  include docks or piers and berthing facilities associated with the manufacturing activity that minimize possible negative impacts?

or is this N/A?

*Recommended policies to be considered for manufacturing projects in the Coastal Zone:*

- a. *Siting of industrial plants where they are served by existing transportation infrastructure, i.e. roads and highways, rail, ports and airports;*
- b. *Development of local plans which direct manufacturing growth into areas committed to industrial use where services can be most readily provided;*
- c. *Development of local plans which encourage comprehensive-type industrial parks, to facilitate well planned, well-managed manufacturing and industrial centers that promote the advantages of locating in the State;*
- d. *Encouraging manufacturing that will provide significant new employment opportunities for coastal residents;*
- e. *Considerations for minimizing noise and aesthetic impacts of manufacturing activities;*
- f. *Considerations for allowing limited public access to the buffer zone as a recreational area.*

**Required:**

As applicant or agent, having completed all appropriate checklists and having read the applicable policies, I certify that this project is consistent with the South Carolina Coastal Zone Management Program based on the information outlined above and supplemental information attached.

Signature and date

10-27-2020



E. **Fish and Seafood Processing**

**Required: Will your fish and seafood processing project or plans...**

- |   |
|---|
| a. <input type="checkbox"/> meet applicable State and Federal water quality standards for drainage or discharge from the proposed seafood packing or processing operations?<br><input type="checkbox"/> or is this N/A?   |
| b. <input type="checkbox"/> comply with policies for docks/piers and dredging/filling, where applicable?<br><input type="checkbox"/> or is this N/A?  |
| c. <input type="checkbox"/> be consistent with the Priority of Uses of each listed Geographic Areas of Particular Concern (GAPCs) as discussed in the Geographic Areas of Particular Concern (GAPCs) Polices and Priority of Uses document located on the Resources section of the CZC webpage?<br><input type="checkbox"/> or is this N/A?                     |
| d. <input type="checkbox"/> avoid significant adverse impacts on salt, brackish or freshwater wetlands, to the extent feasible unless no feasible alternatives exist and the public benefits outweigh the adverse impacts. Explain the feasible alternatives that will be implemented in the summary section below.<br><input type="checkbox"/> or is this N/A? |
| e. <input type="checkbox"/> provide for adequate facilities for proper handling of sewage, litter and other waste products along the seafood processing docking areas?<br><input type="checkbox"/> or is this N/A?  |
| f. <input type="checkbox"/> comply with the Agency's BoW and U.S. Coast Guard in the discharge of water used to pump out the holds of fishing vessels so that water quality is not unnecessarily degraded?<br><input type="checkbox"/> or is this N/A?  |

*Recommended policies to be considered for fish and seafood processing projects in the Coastal Zone:*

- a. *Consideration should be given to the utilization of fish wastes or by products for meal or fertilizers.*

**Required:**

As applicant or agent, having completed all appropriate checklists and having read the applicable polices, I certify that this project is consistent with the South Carolina Coastal Zone Management Program based on the information outlined above and supplemental information attached.



10-27-2020

Signature and date

F. **Aquaculture**

**Required: Will your aquaculture operation project or plans...**

- |   |
|---|
| a. <input type="checkbox"/> avoid the impoundment of previously undisturbed, productive salt, brackish or freshwater wetlands for aquaculture where other feasible alternatives exist?<br><br><input type="checkbox"/> or is this N/A?  |
| b. <input type="checkbox"/> demonstrate compliance with applicable State and Federal water quality standards for discharge or drainage?<br><br><input type="checkbox"/> or is this N/A?   |
| c. <input type="checkbox"/> consider the value and yield which is anticipated from the project weighed against any environmental damage, such as loss of habitat from impounded areas?<br><br><input type="checkbox"/> or is this N/A?  |
| d. <input type="checkbox"/> include an acceptable operations management plan?<br><br><input type="checkbox"/> or is this N/A?   |
| e. <input type="checkbox"/> be consistent with the Priority of Uses of each listed Geographic Areas of Particular Concern (GAPCs) as discussed in the Geographic Areas of Particular Concern (GAPCs) Polices and Priority of Uses document located on the Resources section of the CZC webpage?<br><br><input type="checkbox"/> or is this N/A? |

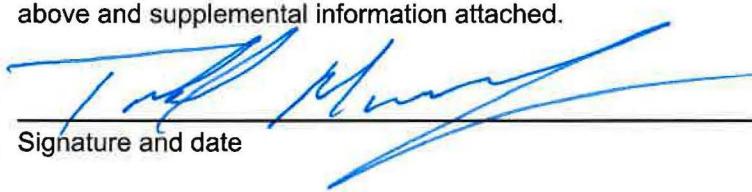
*Recommended policies to be considered for aquaculture projects in the Coastal Zone:*

- a. *Encouraging research efforts for "passive aquaculture" as opposed to use of artificial impoundments including:*
- i. *fixed structure aquaculture for example, setting supports and lines. This should be limited to open water areas where they can be placed on the periphery and not interfere with navigation;*
  - ii. *tray culture for shellfish;*
  - iii. *penning areas for soft shell crabs;*
  - iv. *trap culture for fish;*
  - v. *bottom culture, to avoid navigational problems;*
  - vi. *"agrarian" approaches, such as mechanized harvesters, seed beds, and restocking.*

**Required:**

As applicant or agent, having completed all appropriate checklists and having read the applicable polices, I certify that this project is consistent with the South Carolina Coastal Zone Management Program based on the information outlined above and supplemental information attached.

Signature and date



10-27-2020



## Policy Group XIII - Stormwater Management

Project Name: DLI Plantation Egeria Mine

TMS: Dorchester TMS 051-00-00-003.000

The Agency's Coastal Zone Consistency (CZC) certification review of all activities within the Coastal Zone that require a State permit will be based on the policies contained within the project based checklists. For the CZC request to be complete, you must answer the questions contained within the policies segment relative to your project by checking off all that apply. More than one checklist may apply to your project based on the plan proposal. For example, a road or highway project might also require dredging and filling of coastal wetlands.

**A) Stormwater Runoff Storage – all projects located within one-half (1/2) mile of a receiving water body (not contiguous via an outfall or similar structure with a tidal water body):**

**Required: Will your proposed development project or plans...**

- |  |
|--|
| a. <input type="checkbox"/> demonstrate that storage of the first 1/2 inch of runoff from the entire site or storage of the first one (1) inch of runoff through retention, detention or infiltration systems, from the built-upon portion of the property, whichever is greater? (Storage may be accomplished through retention, detention, or infiltration systems <u>as appropriate</u> for the specific site.) |
| b. <input type="checkbox"/> (for those projects which are located within one thousand feet of shellfish beds) demonstrate the first one and one half (1 1/2) inches of runoff from the built-upon portion of the property be retained on site?   |
| c. <input type="checkbox"/> be consistent with the Priority of Uses of each listed Geographic Areas of Particular Concern (GAPCs) as discussed in the Geographic Areas of Particular Concern (GAPCs) Polices and Priority of Uses document located on the Resources section of the CZC webpage?  |

**Non Applicable Policies:**

Briefly provide reasons (for non applicability) on a supplemental page and attach to this checklist if any of these questions (policies) do not apply to the project.

**Required:**

As applicant or agent, having completed all appropriate checklists and having read the applicable polices, I certify that this project is consistent with the South Carolina Coastal Zone Management Program based on the information outlined above and supplemental information attached.

\_\_\_\_\_  
Signature and date

**B) Golf Courses Adjacent to Receiving Water Bodies:**

**Required: Will your golf course project or plans...**

- |  |
|--|
| a. <input type="checkbox"/> incorporate a minimum setback of 20 feet from any receiving water body for all manicured areas of the golf course (fairways, greens and tees) unless other acceptable management techniques are approved and implemented to mitigate any adverse impacts?  |
| b. <input type="checkbox"/> demonstrate that all drainage from greens and tees will be routed to interior lagoons or an equivalent stormwater management system?   |
| c. <input type="checkbox"/> demonstrate that all outfalls (from any lagoon system) is located at an elevation above the critical area (and if the discharge is to critical area) AND is above the normal water elevation a distance to allow for storage of the first one inch of runoff to prevent the conversion of the stormwater management system to critical area and to maintain positive drainage at high tides? |



- d.  demonstrate the conveyance of all drainage to the interior lagoon system or to an equivalent onsite stormwater management system for all greens and tees proposed to be located on marsh hummocks or islands, if applicable?
- e.  provide for a minimum 20 foot buffer, or an accepted alternative, between manicured areas (fairways, greens and tees) to limit stormwater impacts to freshwater wetlands?
- f.  be consistent with the Priority of Uses of each listed Geographic Areas of Particular Concern (GAPCs) as discussed in the Geographic Areas of Particular Concern (GAPCs) Polices and Priority of Uses document located on the Resources section of the CZC webpage?
- g.  include an integrated pest management system designed in accordance with current best technology practices on the golf course to limit the application of chemicals which, if over applied, may leach into the ground and adjacent surface waters?
- h.  include a two (2) foot separation between the surface of the golf course and the groundwater table where spray effluent is applied?
- i.  demonstrate that the normal ground water elevation has been established by a registered engineer or soil scientist?
- j.  retain the first 1.5 inches of runoff as otherwise described in Policy Question c. for all projects which are within 1000 feet of shellfish beds?
- k.  demonstrate that in the event spray effluent or chemicals are applied to the turf via the irrigation system, all spray heads are located and set so as to prevent any aerosols from reaching adjacent critical areas?

**Non Applicable Policies:**

Briefly provide reasons (for non applicability) on a supplemental page and attach to this checklist if any of these questions (policies) do not apply to the project.

**Required:**

As applicant or agent, having completed all appropriate checklists and having read the applicable polices, I certify that this project is consistent with the South Carolina Coastal Zone Management Program based on the information outlined above and supplemental information attached.

\_\_\_\_\_  
Signature and date

**C) Mine and Landfills:**

**Required: Will your mine or landfill project or plans (for mines or landfills located within 1/2 mile of a receiving waterbody)...**

- a.  demonstrate that when pumping ground water from sediment basins, only floating intakes are used and that pumping ceases when water levels come to within two feet of the pond bottom?
- b.  be consistent with the Priority of Uses of each listed Geographic Areas of Particular Concern (GAPCs) as discussed in the Geographic Areas of Particular Concern (GAPCs) Polices and Priority of Uses document located on the Resources section of the CZC webpage?

**Non Applicable Policies:**

Briefly provide reasons (for non applicability) on a supplemental page and attach to this checklist if any of these questions (policies) do not apply to the project.

**Required:**

As applicant or agent, having completed all appropriate checklists and having read the applicable polices, I certify that this project is consistent with the South Carolina Coastal Zone Management Program based on the information outlined above and supplemental information attached.

\_\_\_\_\_  
Signature and date

10-27-2020