

Mining Form MR-500

#### 8.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

Telephone Number: (803) 896-4261 Fax Number: (803) 896-4961

# RECLAMATION PLAN DHEC FORM 500 DATE VERSION ADOPTED 7/1/94

As required in Section 48-20-90 of the South Carolina Mining Act, "An operator shall submit with his application for an operating permit a proposed reclamation plan. The reclamation plan for an operating permit only must be furnished to the local soil and water conservation district in which the mining operation is to be conducted. The plan must include as a minimum each of the elements specified in the definition of 'reclamation plan' in Section 48-20-40 and information required by the department. The reclamation plan must provide that reclamation activities, particularly those relating to control of erosion, to the extent feasible, must be conducted simultaneously with mining operations and be initiated at the earliest practicable time after completion or termination of mining on a segment of the permitted land. The plan must provide that reclamation activities must be completed within two years after completion or termination of mining on each segment of the area for which an operation permit is requested unless a longer period specifically is permitted by the department."

lerr with	at be conducted simultaneously with mining operations and be intuated at the earliest practicable time after completion or nination of mining on a segment of the permitted land. The plan must provide that reclamation activities must be completed hin two years after completion or termination of mining on each segment of the area for which an operation permit is re- sted unless a longer period specifically is permitted by the department."								
l.	APPLICANT INFORMATION								
	1. Name of Company: DORCHESTER LOGISTICS INC								
	2. Name of Proposed Mine: DLI PLANTATION EGERIA County: DORCHESTER								
	3. Home Office Address: 261 SEVEN MILE ROLPO Box 365 843-462-2600 (Repetere No.)								
	### Street and P.O. Box)  ### AR/EYUI/E 5C 29448 843-462-2929  (City) (Street) (Zip Code) (Fax No.)								
	4. Local Office Address: 5AM/3 (Telephone No.)								
	(City) (State) (Zip Code) (Fac No.)  5. Name of company personnel and their title to be the contact for official business and correspondence: MICHAE (TODD MUCKEN FUSS : VICE PRESIDENT Contact of Mine: S-18-28 BEIDLER FOREST RD DORCHESTER SC								
u.	State or County Hwy No. Nearest Town or City  ENVIRONMENTAL PROTECTION								
	1. Describe practices to protect adjacent resources such as roads, wildlife areas, woodland, cropland and others during mining and reclamation.  Soil BERM, FITTER COTH, SWAISS, RETENTION PONDS								
	2. Describe proposed methods to limit significant edverse effects on adjacent surface water and groundwater resources.  ANY DISTURBED AREA RUN-OFF WILL BE CHAMMELLED TO  HAIN PIT. FITER CLOTH WILL BE USED ON DIRT BERMS  AND SZEDED TO PREVENT SEDIMENT RUN-OFF.								
	<ol> <li>Describe proposed methods to limit significant adverse effects on known significant cultural or historic sites within the proposed permitted area.</li> <li>NO SITES ON PROPERTY.</li> </ol>								

4. Describe method to prevent or eliminate conditions that could be hazardous to animal or lish life in or adjacent to the permitted area.  NO FISK IFE IN AREA. BANK OF PIT WILL BLE STOPED  IN ONE AREA FOR ESCAPE OF ANY WILDLIFE WHICK ENTER PIT.  5. Describe how applicant will comply with State air quality and water quality standards as established by the S.C.  Department of Health and Environmental Control.  All Equipment will be In 9000 MAINTENCE. PREVENTATIVE MAINTENCE WILL BE CONDUCTED TO PREVENT ANY AIR OR 9,000 WATER POILUTION.						
<ol><li>State useful purpose(s) the affected land is being proposed for reclamation. More than one purpose may but information should be submitted to support the feasibility for each proposed purpose.</li></ol>	y be checked,					
a Lakes or pond \$ Stack w/fish 1. Grassland						
b. Agriculture D g. Recreation X fishing Dack	hunttnop					
c. Woodlands						
d. Residential   possible home SiTE   . Park						
e. Commercial j. Other						
7. State the final maximum surface gradient(s) (slope) in soil, sand, or other unconsolidated materials on a Surface gradients steeper than 3H:1V (18 degrees or 33 percent) may be required to submit geotechnic studies to demonstrate that the steeper slopes will remain stable following final reclamation. FINAL STOPE 3:1 AND SEEDED	eclaimed land. al data and					
8. How will the final slopes in unconsolidated material be accomplished? If the slope will be by backfilling, demonstrate that there is adequate material to accomplish the stated final gradient. If gradient is to be achieved by bringing in material from outside the permitted area, state the nature of the material and approximate quantities. If the gradient is to be achieved by grading, show that there is adequate area for grading to achieve gradient (i.e., adequate distance between the property line and edge of highwall). Operator should show calculations or other appropriate information to demonstrate that there is adequate materials in backfilling and grading to meet the requirements for final slope.  FINAL SISPE WILL BE WORKEOIN AS MINING PROPRESSES.  Adequate. SETBACKS AND BERMS WILL BE IN PLACE TO ACLIEUE. REQUIRED SIOPE						
9. Describe the plan for revegetation or other surface treatment of attacked area(s). The revegetation plans not be limited to the following: (a) plansed soil tast; (b) site preparation and fertilization; (c) seed or plants of seeding or amount of planting per acre; (e) maintenance.  All of This. Abours. Operator has hydro seeded with the use of the seed of the se	818CUUIT; (O) FAIS					
	nit No					
<del>6/1</del> !	- <i>001844</i> -002170					

10. Provide, as a separate document, a closure plan of the mine and permitted facilities to prevent a release of contaminants from being harmful to the environment. A closure plan is not necessary for all mines, but is required where the possibility exists for (a) acid rock drainage; (b) where the National Pollutant Discharge Elimination Systems (NFDES) Permit has discharge limitation parameters other than pH and Yotal Suspended Solids (TSS); (c) chamically treated teilings or stockpiles (excludes farifilizar or line for revegetation purposes).

Should NOT APPLY. ONLY MINING OF SAND/C/AY WILL DE DONE, THEN AE-TURN PIT TO RECREATION PISHING /AKE

11. Method of control of conteminants and disposal of mine waste soil, rock, mineral, ecrap, tallings, stimes, and other material directly connected with the mining, cleaning, and preparation of mineral substances mined and includes all waste materials deposited on or in the permit area from any source.

Should not Apply, MINING of Fill dIRT ONly.

- 12. Method of reclaiming settling and/or sediment ponds.

  Will be PART of MAIN LAKE WHEN COMPLETED.
- 13. Describe method of restoration or establishment of stream channels, stream banks and site drainage to a condition minimizing erosion, elitation and other pollution.

  Slope on banks will be maintained to keep erosion in side existing pit. Finished banks will be 3:1 And Seeded when completed.
- 14. What are the maintenance plans to insure that the reclamation practices established on the effected land will not deteriorate before released by the Department?

  OPERATOR, EMPLOYEES AND OWNER WILL MONITOR SITE. SITE CONDITIONS WILL IN FLUENCE OVERAL (FINAL RESUITS. IT IS IN OUR DEST INTEREST TO MAINTAIN SITE IN EXCELLANT
- 15. For final reclamation, submit information about practices to provide for safety to persons and to adjoining property in all excavations. Identify areas of potential danger (vertical walls, unstable slopes, unstable surface on clay slines, etc.) and provide appropriate safety provisions. These provisions can include but are not limited to setbacks, fancing,

  All Slopes will be graded as required, gates will be locked and slipes will be locked and slipes will be posted about mining sites and no refer to the posted about mining sites and no refer to the passing.
- 16. What provisions will be taken to prevent notices, actions, or foul pools of water from collecting and remaining on the mined area? For mines to be reclaimed as takes or ponds, provide supporting information that a minimum water depth of four (4) feet on at least filly percent (50%) of the pond surface area can be maintained.

  MINE PIT depth will be 20±. This depth will prevent wasos from growing and water from wareness.

  HOM GROWING AND WATER FROM WARMING. WATER TA ble IN AREA IS 4-5' which will be su friction? To keep lake At AN AREA IS 4-5' which will be su friction? Acceptable.

OHEC:3103(03/1994)

17.	Identify any structures (e.g. buildings, roads) that are proposed to remain as part of final reclamation. Proceedings for leaving any structures.	rovide justili-
	NO BUILDINGS OR STRUCTURES WILL REMAIN.	
		:
18.	Attachtmp (2) copies of a map of the area (referred to as the RECLAMATION MAP) that shows the racia fices and conservation practices to be implemented. The following should be shown:	mation prac-
<b>y</b>	A. The outline of the proposed final limits of the excavation during the number of years for which the proposed.	rinit is
	B. The approximate first surface gradient(s) and contour(s) of the area to be racistmed. This would inch and bottoms of mines reclaimed ponds and lakes.	ado fhe sides
MA	C. The outline of the tailings disposal area.	
1	D. The outline of disposal areas for spoil and refuse (exclusive of tailings ponds).	
1	E. The approximate location of the mean shore line of any impoundment or water body and inlet and/o structures which will remain upon final reclamation.	routlet .
-	F. The approximate locations of access roads, had roads, ramps or buildings which will remain upon reclamation. 9RASS GOAD AROUND FAKE, bOAT RAMP	linat
V	G. The approximate locations of various vegetative treatments. 9/1465 Y TREES	
	H. The proposed locations of re-established streams, ditches or drainage channels to provide for site of	kainege.
V	<ol> <li>The proposed locations of diversions, terraces, elit fences, brush barriers or other Best Management be used for preventing or controlling erosion and off-site sittation.</li> </ol>	t Practices to
V	/ J. Proposed locations of the measures to provide safety to persons and adjoining property.	
V	K. Segments of the mine that can be mined and reclaimed as an ongoing basis.	
r	L. The boundaries of the permitted area.	
J	M. The boundaries of the affected area for the anticipated life of the mine.	
4	N. The boundaries of the 100-year floodplain, where appropriate.	
/	O. Identify sections of mine where the final surface gradient will be achieved by grading and/or backfill 50'SETDAL A WET MYOS ードイパッチ チネットック	ing.
ı	P. A legand showing the name of the applicant, the name of the proposed mine, the north arrow, the scale, the date of preparation and the name and title of the person who prepared the map.	county, the
<b>MATORICINA</b>	CLIFIED RECLANDICH MAPSHALLHRAFAMENT, LEBBLE APPEARANCE AND SECT SUFFICIENT SCALE TO CLEARLY SHOW MICHALISTED ABOVE. THE BASE FOR THE MAPSHALL HE EITHER A SPECIALLY PREPARED LINE OF MINNIG, A FISHL PH OLISGS TO POGRAPHIC MAP OR A RECENTLY PREPARED IT.AT. SECLAMARICHMAP SHOULD HE RESAME SCALE USED FO	HOGRAPHLEN-
IV. SC	HEDABLE FOR MAPLEMENTATION OF CONSERVATION AND RECLAMATION PRACTICES	
19	As stated in Section 48-20-80 of the S.C. Mining Act, rectamation activities, to the extent issaible, must simultaneously with mining operations. Identify which areas or segments of the mine are not feasible simultaneously with mining. Provide researce why reclamation can not proceed simultaneously with r	to racialm nining in these
	GRADING OF SIDE WALLS WILL BE COMPLETED AS A IS COMPLETED ON CERTAIN SECTION TO STABILIZE	E THE
	w m//.	
ALTERNATION OF THE PARTY OF THE	Permi	No

6 81-00-1844 I-002170 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 &	Segment # or Area	Planned		*Applied		Notes
Reclamation Practices		Amount	Year	Amount	Month/Year	
Excavation initiated under GP1-001844	GP1	4.0				GP1 incorporated
Install survey control markers	PA		GP1			See Note 1, maintain LOM
Flag buffer area	PA		2017			See Note 2, maintain LOM
Post Warning signs	PA		2017			Maintain LOM
Install stormwater BMPs along wetlands, access road; basin	PA		2017			See Note 3
Clear/ stockpile topsoil	AA	24.0	2017- 2024			See Note 4
Remove/ stockpile overburden	AA	24.0	2017- 2024			See Note 5
Excavate	AA	24.0	2017- 2024			See Note 5
Grade final side slopes 3H:1V	final banks	~4.0	2017- 2024			See Note 6
Topsoil, fertilize, seed slopes	final banks	~4.0	2017- 2024			See Note 7
Grade out sediment basin	basin		2024			once mining is completed
Inspect, repair, maintain	final banks	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
- 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.
- Slopes shall be graded as excavations progress.
- 7. Topsoil placement, fertilizing, seeding of final banks shall be done as soon as feasible
- 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

<sup>\*</sup> 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	Segment or	Planned		*Applied		Notes
Practices	Area	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
					MODIFICATION	
				Approved by: Section Manager		
				Date:	12/	2/2021

AA – Affected Area BMPs – Best Management Practices Fert. – Fertilize LOM – Life of Mine MW - Monitoring Well PA – Permitted Area

 $PL-Property\ Line\ SB-Sediment\ Basin\ ST-Sediment\ Traps\ SW-Stormwater\ TS-Topsoil\ WL-Wetlands$ 

FORM MR-500 I-001619

<sup>\*</sup> Completed by the Department

YOU ARE NOTIFIED THAT:	
1) You, the operator, must file an application to modify the reclamation plan in the event actual reclamation varies from the second forth hereinabove; and	et
2) If at any time it appears to the Department that the activities under the reclamation plan are failing to achieve the purpose and requirements of the S.C. Mining Apt; the Department may modify the RECLAMATION PLAN in accordance to Section 48-20-150.	es on
Signature of Applicant/Operator or his Authorized Representative	
Mrc.kited T. III Mucke at 455 Printed Name of Applicant/Operator or his Authorized Representative	
VP.	
6-1-17	
Department Use Only	
Permit No.: I-002170 Date Application Approved: 2/9/18 Date Bond Rec'd: 2/7/18  Bond Amount: \$25,000.00 Blanket or Single Bond: single Permit Issuance Date: 2/9/18	
ACTION TAKEN ON THIS RECLAMATION PLAN Approved Denied XApproved with Additional Terms and Conditions	
BY: Want L: BM DIVISION DIRECTOR	
Date: February 9, 2018	
UHEC 3103 (03/1894) Page 6 Permit No	

Permit No.

6*P)-001844* I-002170