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NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

Dexter R. Matthews, Director | Division of Waste Management | Michael F. Easley, Governor
William G. Ross Jr., Secretary

November 9, 2005

Sid Williamson
Solid Waste and Recycling Manager
Environmental Sustainment Division
Directorate of Public Works
Fort Bragg, NC 28310

Re: Limited Authorization to Place Recycling Operations on Portions of Certified Closed LCID
Fort Bragg LCID
Cumberland County, North Carolina
Permit No. 26G
Doc ID No. RCO141

Dear Mr. Williamson:

Thank you for discussing by telephone yesterday (November 8, 2005) and today the above referenced project. The request as outlined in submittals to this office from Gregory G. Bean dated October 31, 2005, is approved under the limiting conditions listed below:

1. This approval is only for the areas currently meeting LCID closure requirements as certified in a letter from HDR Engineering, Inc., dated October 11, 2005, and addressed to Mr. George Whitley, XVIII Airborne Corps and Fort Bragg (attached).

   That letter indicates on an attached drawing that the area designated Area A complies with the closure requirements for LCID landfills while the two areas designated Area B do not. The two Area B locations correspond to the R-6 and R-8 Areas designated on the aerial photograph titled Lamont Landfill Recycling Areas (attached).

2. Closure of the LCID needs to be completed in a timely manner. In the absence of a proposed schedule, we will set the date for completion of closure construction activities including a stand of thriving vegetation as Friday, June 30, 2006. Although you indicated by telephone today that this date is satisfactory, please provide us with an alternate schedule and explanation should this date not be feasible.

3. Please provide closure certification when closure activities for the two remaining areas are completed. The certification for the two Area B areas (also designated R-6 and R-8 areas) and the certification previously submitted as referenced above will complete the closure certification requirements for the LCID.

4. Damage to the liner due to rutting, heavy equipment operation, erosion and other activities is a concern. Any damage to the liner must be addressed and repaired in a timely manner. We recommend that:

a. The access road and areas where heavy equipment will operate be built as all-weather roads and repaired in timely manners, and that

b. Heavy equipment should be limited to the access roads with minimal usage directly on soil liner.

5. Mulching operations at the site must be managed in such a manner that it does not produce odors, harbor vectors or otherwise create a nuisance.

6. Submittals to this office of any present or future permitted solid waste management operations should include the recycling operation in the overall site plan.

7. Please note that this authorization does not waive any responsibility you have to meet and comply with any other local, state or federal regulations that affect the operations at the site.

Thank you for your cooperation in this matter. Should you have any questions regarding this letter or wish to discuss the matter further, please contact me at (919) 508-8504.

Sincerely,

Geoffrey H. Little
Environmental Engineer
Solid Waste Section

c: Jim Coffey, DWM
Ed Mussler, DWM
Dennis Shackelford, DWM
John Crowder, DWM

DEPARTMENT OF THE ARMY
INSTALLATION MANAGEMENT AGENCY
HEADQUARTERS, FORT BRAGG GARRISON COMMAND (AIRBORNE)
FORT BRAGG, NORTH CAROLINA 28310

REPLY TO
ATTENTION OF:

October 31, 2005

Directorate of Public Works

Mr. Ed Mussler
North Carolina Department of Environment
and Natural Resources
Division of Waste Management
Solid Waste Section, Permitting Section
Raleigh, North Carolina 27699

Dear Mr. Mussler:

Fort Bragg is requesting approval of the enclosed plan for recycling operations (Enclosure 1) on the certified portion of the Land Clearing and Inert Debris (LCID) Landfill, permit 26-G. Fort Bragg will be stock piling clean concrete to be crushed for reuse, stock piling and grinding pallets and clean wood for mulch, stock piling and grinding yard waste and tree waste for mulch, stock piling soil for reuse, and stock piling Class "A" Bio-Solids for mixing with soils and mulch for reuse.

The operations will be performed on the certified portion of the LCID that has adequate final closure cover (Enclosure 2). The LCID is in progress of being closed and this area is the identified to be the location for the future Landfill Recycling Area on the new permit application for the "Combined LCID and Construction and Demolition Landfill" submitted February 2004.

Point of contacts for this action is Sid Williamson, Solid Waste and Recycling Manager, (910) 396-3372 or Christine Hull, Chief, Environmental Compliance Branch, (910) 907-3214.

GREGORY G. BEAN
Director of Public Works

Enclosures

Operations Plan
Lamont Landfill Recycling Area
Fort Bragg

Temporary Stock Pile Area and Equipment/Work Area
R-1 Area

Southeast side of the R-1 Area will be the only portion of this area used, if needed. This portion of the R-1 will be used for stock piling soil or mulch used in the mixture at R-2 Area. This portion will be used for overflow of equipment and extra work area. Erosion controls and run-off controls, such as fencing or berms, will be in place at the R-1 Area. Roads to and from the R-1 Area will be monitored for rutting and eroding and repaired when needed. This area will be maintained in an orderly manner and cleaned as necessary. Foreign materials will be removed and place in the proper waste stream area.

Class "A" Bio-Solids, and Mixing Area,
R-2 Area

Class "A" Bio-Solids will be transported from the Waste Water Treatment Plant by covered dump trucks to the R-2 Area to be stock piled. Approximately 6,000 Tons of Class "A" Bio-Solids will be transported to the site for the initial (first phase) mixing operations. The bio-solids will be used as part of the mixture with the mulch and soil. The remaining bio-solids will be transported in the second phase after the first phase of the mixture has been stock piled at R-2 Area or the mixture will be applied on the designated areas for soil amendment on the landfill cover or as a land application on Fort Bragg. The bio-solids will be mixed with soil and mulch to produce the mixture at the R-2 Area. Erosion controls and run-off controls, such as fencing or berms, will be in place at the R-2 Area. Roads to and from the R-2 Area will be monitored for rutting and eroding and repaired when needed. Area will be maintained in an orderly manner and cleaned as necessary. Foreign materials will be removed and placed in the proper waste stream area. The R-2 Area will be the designated area where soil, mulch, and bio-solids will be mixed and stock piled for use on designated areas.

Pallets and Clean Wood Waste/Yard Waste/ Tree Waste Mulching Operations, and Soil Stock Pile Area
R-3 and R-4 Areas

The mulching of pallets, clean wood, yard waste and tree waste will be performed in the R-4 Area. The pallets and clean wood, yard waste and tree waste are presently stocked piled east of the certified area. The stock piled waste will be ground and the mulch will be transported to the R-3 Area to be stock piled for future mixing will soil and bio-solids. Future stock piling of pallets and clean wood will be mixed together and the yard waste and tree waste will be mixed together and will be placed at the R-4 Area. Soil will be transported from the landfill borrow areas and/or brought in from on-post construction sites and stock piled at the R-4 Area Erosion controls and run-off controls, such as fencing or berms, will be in place at the R-3 and R-4 Areas. Roads to and from the R-3 and R-4 Areas will be monitored for rutting and eroding and repaired when needed. Areas will be maintained in an orderly manner and cleaned as necessary. Foreign materials will be removed and placed in the proper waste stream area. Scrap metal from the

Encl 1

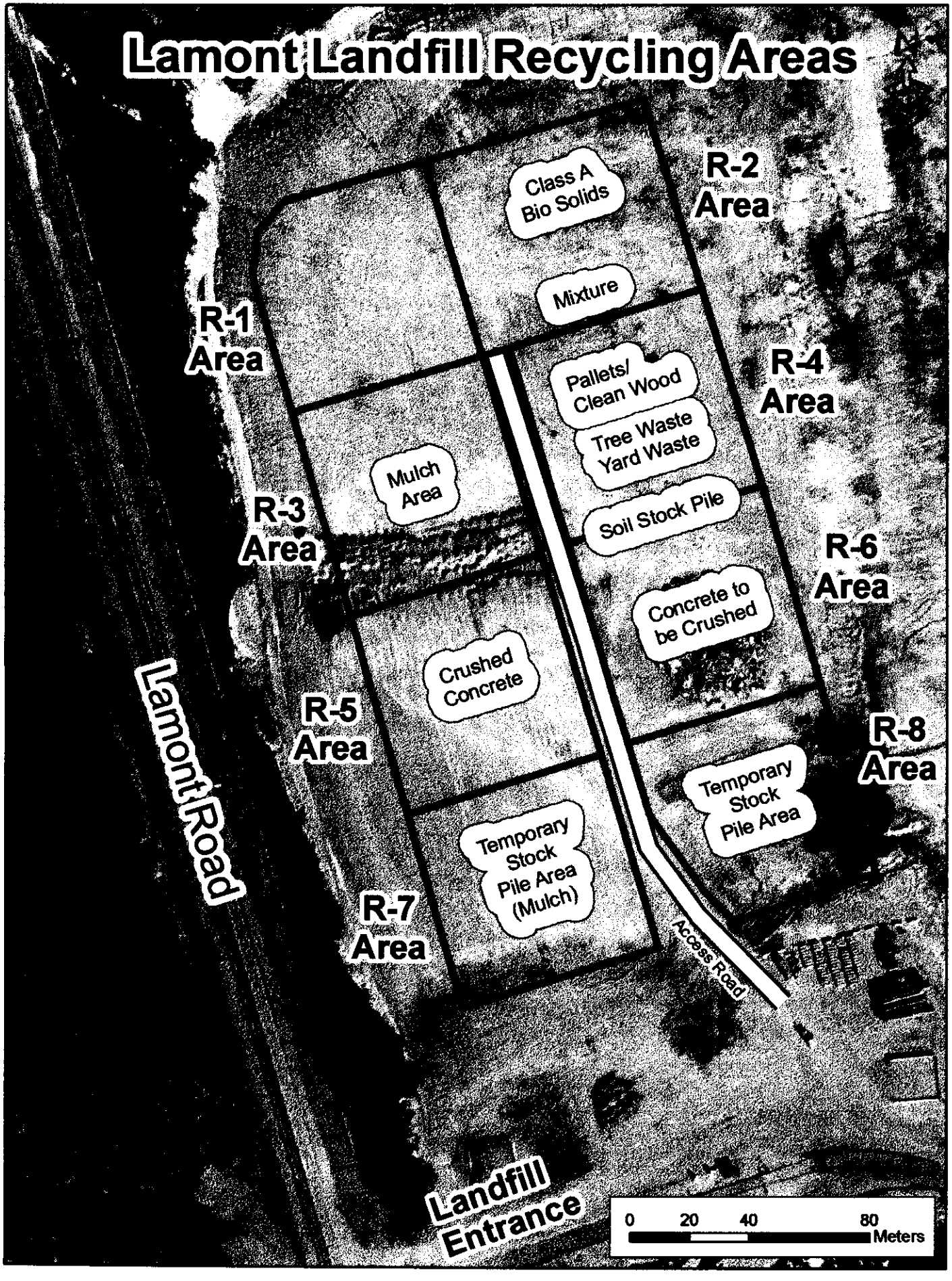
mulching operations will be removed from the area and placed in the Scrap Metal Recycling roll-off container at the landfill.

Concrete Grinding Operations,
R-5 and R-6 Areas

Concrete, cement block, bricks, and asphalt will be transported to the designated Lamont Landfill Recycling Area from Fort Bragg to be stock piled at R-6 Area. The crushing equipment and crushing operations will be performed in R-6 Area. The crushing operation will be performed in R-6 Area. When crushing operations are being performed, dust control will be enforced. Erosion controls and run-off controls, such as fencing or berms, will be in place at the R-5 and R-6 Areas. Roads to and from the R-5 and R-6 Areas will be monitored for rutting and eroding and repaired when needed. Concrete Crushing Operations will only be performed when an adequate stock pile of materials are present. Approximately five crushing operations will be performed per year, if materials exist. After the first grinding phase is complete, the R-6 Area will be verified for adequate final cover. Areas will be maintained in an orderly manner and cleaned as necessary. Foreign materials will be removed and placed in the proper waste stream area. Scrap Metal from the operations will be removed from the area and placed in the Scrap Metal Recycling roll-off container at the landfill.

Temporary Stock Pile Area
R-7 and R-8

R-7 Area will be used as a Temporary Stock Pile Area for recyclables. R-8 Area will be used in the future as a Temporary Stock Pile Area after adequate final cover is verified. Erosion controls and run-off controls, such as fencing or berms, will be in placed at the R-7 and R-8 Areas. Roads to and from the R-7 and R-8 Areas will be monitored for rutting and eroding and repaired when needed. Areas will be maintained in an orderly manner and cleaned as necessary. Foreign materials will be removed and placed in the proper waste stream area.


Lamont Landfill Recycling Areas
R-1 Area
R-2 Area
R-3 Area
R-4 Area
R-5 Area
R-6 Area
R-7 Area
R-8 Area
Class A Bio Solids
Mixture
Pallets/ Clean Wood
Tree Waste Yard Waste
Mulch Area
Soil Stock Pile
Concrete to be Crushed
Crushed Concrete
Temporary Stock Pile Area
Temporary Stock Pile Area (Mulch)
Lamont Road
Access Road
Landfill Entrance
0 20 40 80 Meters

HDR ONE COMPANY | *Many Solutions*

October 11, 2005

Mr. George Whitley
XVIII Airborne Corps and Fort Bragg
Attn: AFZA-PW-CB
Building 3-1634 Butner Road
Ft. Bragg, NC 28310

Re: LCID/C&D Landfill Expansion
LCID Final Cover Investigation
HDR Project No. 11236-31409-018

Dear Mr. Whitley:

This letter report has been prepared to summarize the site investigation conducted on the Land Clearing and Inert Debris (LCID) landfill final cover system and to supplement a previous final cover investigation prepared by HDR Engineering, Inc. of the Carolinas dated March 26, 2004.

Background

Prior to operating the proposed land clearing and inert debris and construction and demolition landfill (LCID/C&D), the existing LCID landfill must be closed with a minimum of 12 inches of soil material. A final cover investigation of the LCID landfill was conducted in March 2004 to determine the areas of sufficient and insufficient final cover thickness. However, since the March 2004 investigation, subsequent operational and cover placement activities have resulted in a revised site layout of inactive and active areas. Thus, a more recent final cover investigation was conducted to be consistent with the current conditions. The inactive operational areas were the main focal point investigated.

Field Investigation

On September 20, 2005, the first of two field investigations was conducted on the LCID landfill to evaluate the existing soil cover thickness in the inactive areas. A hand auger was used to dig test pits throughout the existing LCID cover. These test pits were frequently located to provide sufficient coverage and the depth of each pit was then recorded. A second field investigation will be conducted upon the completion of placing cover over the current active areas.

Findings

Please find attached a drawing of the existing LCID landfill with delineated areas indicating cover thickness. Test pits were conducted within the inactive areas. The evaluation resulted in the delineation of two distinct areas, Areas A (inactive) and B (active). Area A represents a portion of the LCID landfill with 12 inches or more of soil cover. Area B is comprised of two active operations (pallets and LCID material) representing the portions of the LCID landfill with cover soil anticipated to be greater than or equal to 12 inches. Area B was not specifically investigated due to waste being placed in this area of the landfill.

Encl 2

Conclusions and Recommendations

Area A yielded sufficient cover thickness such that additional cover is not warranted. The pallet area and current fill area were difficult to evaluate due to operations and will be re-evaluated prior to the transition to the approved combined LCID/C&D landfill. It is recommended that the current operations of pallets and LCID material may be relocated in Area A in order to complete final cover placement in Area B. A second field investigation will be conducted subsequent to the relocation of the pallet and LCID operations.

If you should have any questions, concerns, or comments regarding this information, please do not hesitate to contact me.

Sincerely,

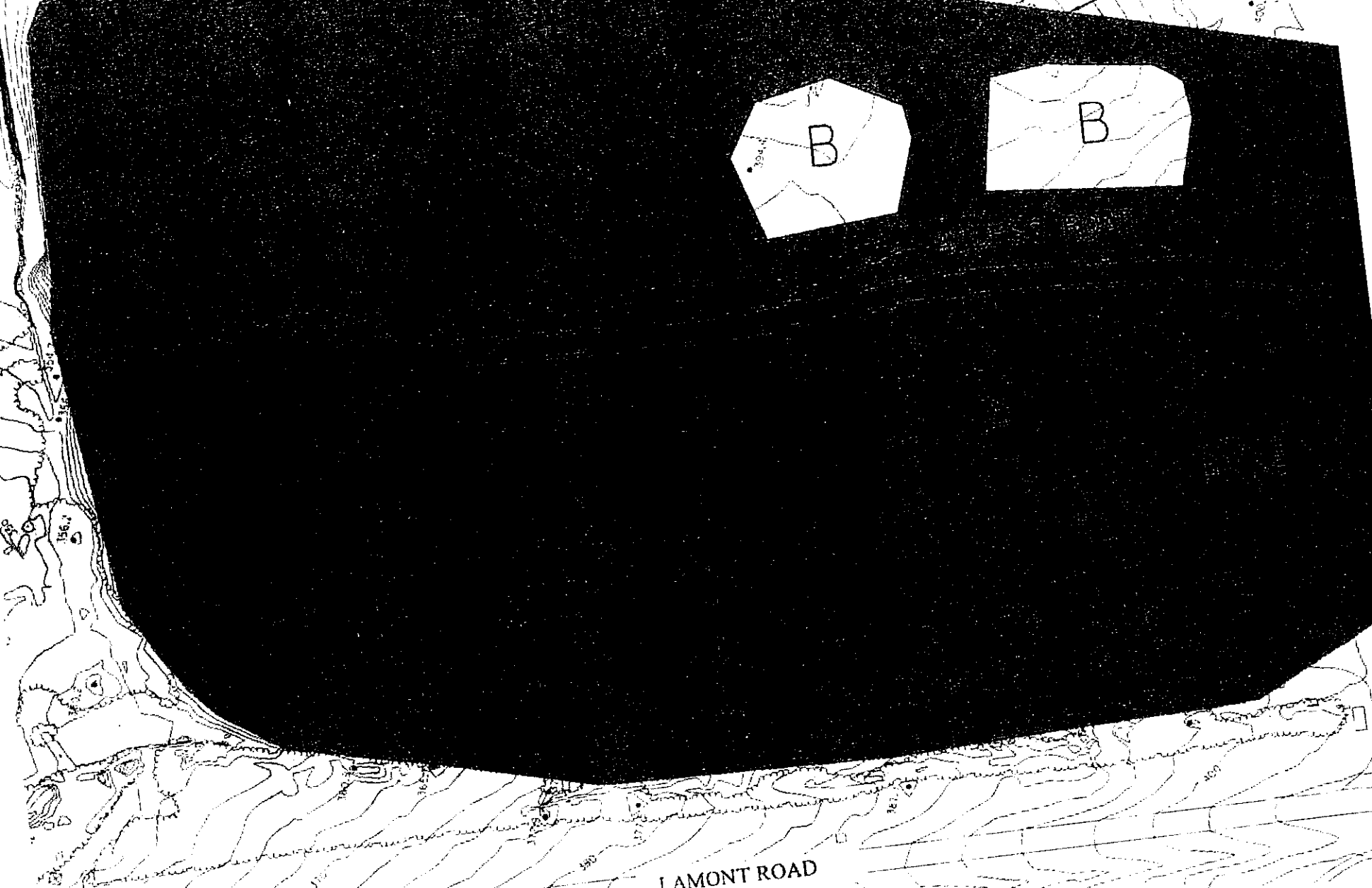
NORTH CAROLINA PROFESSIONAL SEAL 024457 ENGINEER DOUGLAS T. DeCESARE 10-11-05

Douglas T. DeCesare, PE
Project Engineer

DTD/

Attachment

cc: Mr. Joe Readling (HDR) w/o attachments
Mr. Sid Williamson
Mr. Dan Messier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