



# Jackson Paper Manufacturing Company

MANUFACTURERS OF STONEWALL LINERBOARD AND MEDIUM



P.O. BOX 26179  
RICHMOND, VIRGINIA 23260  
TELEPHONE 232-1292 AREA CODE 804

September 30, 1982

State of North Carolina  
Department of Human Resources  
Division of Health Services  
Environmental Health Section  
Raleigh, North Carolina 27602

Case #	Date
bc	3 3 10

Attention: Mr. Gordon Layton  
Solid & Hazardous Waste Management Branch

Gentlemen:

Jackson Paper Manufacturing Company submits the following information required by procedure and criteria for waste determination for your evaluation:

### General Information

1. Jackson Paper Manufacturing Company, Sylva, N.C., generates the waste.
2. The waste is wood ash.
3. The process generating the waste is the firing of waste wood fuel for the generation of steam.
4. Based on a density of 100 pounds per cubic foot the total amount of ash generated would be approximately 230 cubic feet per day. This naturally will vary depending upon the fuel being fired and the cleanliness of the fuel. The above figure represents ash discharged off the stoker (bottom ash) as well as that collected in the dry multiclone collector and wet scrubber. Frequency of disposal has not been determined at this time; however, it could be disposed of on a dailey basis or up to a maximum of thirty (30) day intervals for portions of the waste.

### Information for Hazardous (RCRA) Determination (10NCAC10F .0029)

1. Materials contained in the wood ash, based on a typical analysis, are not listed under Subpart D 261.31 and 261.32.

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2. The waste does not meet the requirements of Subpart D as defined by 261.33 (e) and (f) in that it does not contain any of the hazardous or toxic substances listed.
3. N/A

Information for Landfilling Determination

1. The waste does not contain any constituents listed in Appendix VIII, 40CRF, May 19, 1980, and the amendments.
2. Constituents present and their concentration (percent by weight) are listed below based on a typical wood ash analysis.

Silica	as SiO <sub>2</sub>	1.6
Iron	as Fe <sub>2</sub> O <sub>3</sub>	3.1
Titanium	as TiO <sub>2</sub>	0.0
Aluminum	as Al <sub>2</sub> O <sub>3</sub>	3.1
Manganese	as Mn <sub>3</sub> O <sub>4</sub>	3.8
Calcium	as CaO	60.7
Magnesium	as MgO	2.9
Alkalies	as Na <sub>2</sub> O	10.3
Sulfate	as SO <sub>3</sub>	2.9
Chloride	as Cl	0.3
Carbonate	as CO <sub>2</sub>	11.4

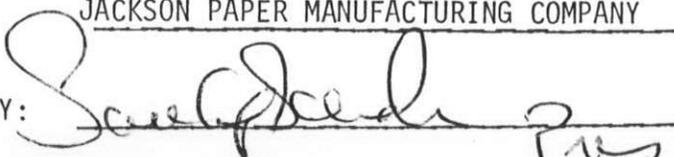
3. The total heavy metals content is listed in the above analysis as oxides of the heavy metals.
4. N/A
5. N/A

Enclosed for your information is Wood Fuel Analysis (0-120 mi, of Sylva, N.C.).

Should you have any questions, please contact Wiley & Wilson, P.O. Box 877, Lynchburg, Virginia 24501 (Telephone No. 804-528-1901).

"I hereby certify that the information submitted in regard to Wood Ash is true and correct to the best of my knowledge and belief."

JACKSON PAPER MANUFACTURING COMPANY

BY: 

FUEL SPECIFICATION - WOOD BOILER  
Jackson Paper Manufacturing Co.  
Sylva, N.C.

FUEL DESCRIPTION

The subject fuel will be wood residues consisting of sawdust, bark, shavings, chips and other wood materials, both hardwood and softwood. Preliminary studies show that the mixture should be approximately 80% hardwood and 20% pine. Of this, 50% will be sawdust, 25% will be bark and the remainder will be composed wholly or in part of chips, shavings, pole peelings, trim ends, trim blocks, slabs and slivers.

WOOD FUEL ANALYSIS (0-120 mi. of Sylva, N.C.)

<u>Ultimate Analysis (% by weight)</u>		<u>Proximate Analysis (% by weight)</u>	
Hydrogen	3.0	Volatile Matter	37.7
Carbon	26.3	Fixed Carbon	11.2
Nitrogen	.1	Moisture Content	50.0
Oxygen	19.5	* Ash	1.1
Sulfur	0		
*Ash	1.1		
Moisture	50		

Heating Value 8168 BTU/lb bone dry

4084 BTU/lb as delivered (50% moisture content)

\*Denotes ash contained in fuel only. Contaminants could run as high as 3%.

SANITARY LANDFILL OPERATIONAL PLANS  
JACKSON COUNTY LANDFILL, DILLSBORO SITE  
JACKSON COUNTY, NORTH CAROLINA  
FOR  
THE JACKSON COUNTY BOARD OF COMMISSIONERS  
COMMISSIONERS

Wayne Hooper, Chairman  
Robert Blanton  
Veronica Nicholas



CONSULTING ENGINEERS  
Butler/McGill Associates, P.A.  
Asheville, North Carolina

George W. Jensen, P.E.

Project No. 82194

and Community Development. Specific population information was obtained from the Southwestern Planning and Development Commission (Region A), shown on Exhibits C. The present population of Jackson County is approximately 25,950 people. Because of the existence of the Cullowhee landfill it is expected that approximately 50 percent of the county's population use the Dillsboro landfill.

C. Site Topography and Soils Limitations

The present site is located in an elevated, well drained area. The majority of the surface drainage is carried southwestward to the Tuckasegee River by diversion ditches and pipe. The site is subject only to runoff from precipitation with no adjoining drainage onto the site. Soil borings were performed by Soil & Material Engineers, Inc. and information on results are included in Exhibit F. It is important to note that no water was encountered in any of the borings which ranged in depth from 20 to 45 feet. All borings were taken to proposed depth with no rock encountered. The soils consist of brown micaceous silty fine sands which when properly compacted should provide a good cover material to limit water intrusion of the completed cells leading to undesirable leachate from the landfill.





**SOIL & MATERIAL ENGINEERS INC.** ENGINEERING-TESTING-INSPECTION

125 London Rd., Box 15153, Biltmore Sta., Asheville, NC 28813-0153, Ph. (704) 274-7800

February 29, 1984

Mr. Woody Hampton, County Planner  
Jackson County  
County Administration Building  
8 Ridgeway Street  
Sylva, N.C. 28779

Re: Jackson County Landfill  
Dillsboro, N.C.

Dear Mr. Hampton:

Soil & Material Engineers, Inc. has completed the auger borings at the Jackson County Landfill in Dillsboro, N.C.

A total of nine auger borings were drilled at the locations shown on the attached site plan. In general, the auger borings ranged from twenty foot to forty-five foot depths. The soils consist of a brown micaceous silty fine sand. No rock was encountered in any of the borings at the locations shown. Attached is an itemized sheet indicating boring numbers and depths.

We appreciate the opportunity to be of service to you; any questions, please advise.

Very truly yours,

Soil & Material Engineers, Inc.

  
Richard A. Gilstrap  
Construction Services Manager

  
J.C. Bumgarner, P.E.  
Branch Manager

RAG:JCB/dh

Enclosure