



STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE HOUSE STATION 17 AUGUSTA, MAINE 04333

DEPARTMENT ORDER

IN THE MATTER OF

TREE-FREE FIBER COMPANY, LLC)	SOLID WASTE ORDER
KENNEBEC COUNTY, MAINE)	
SLUDGE STABILIZATION)	
#S-04892-WD-AB-M)	
(APPROVAL WITH CONDITIONS))	MINOR REVISION

Pursuant to the provisions of 38 M.R.S.A. Section 1301 et seq., and 06-096 CMR Chapter 400 et seq., Solid Waste Management Rules, effective May 24, 1989, the Department of Environmental Protection has considered the application of TREE-FREE FIBER COMPANY, LTD ("applicant") with its supportive data, staff summary, and other related materials on file and FINDS THE FOLLOWING FACTS:

1. APPLICATION SUMMARY

A. Application: The applicant has applied for a minor modification to Department Order #S-4892-WD-ZZ-N, dated June 27, 1979, which approved the construction and operation of the paper mill sludge landfill.

B. History:

- (1) Original License: Statler Tissue Company received Department approval on June 27, 1979, for the construction of the applicant's landfill. The facility was designed and constructed for the landfilling of paper mill sludge generated by the former Statler Tissue Company.

The paper mill sludge landfill is located on the Church Hill Road in Augusta. It is approximately 3 miles northeast of the Tree-Free Fiber Company's mill. The waste boundary of the landfill covers 40 acres. It is being developed in three phases. Currently 29 acres (Phase I & II) have been developed and are receiving sludge for disposal. Phase III has not been developed.

- (2) Since Department approval on June 27, 1979, many changes have occurred at the landfill requiring Department approval. The following is a chronological listing of the Department licenses.

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DEP License # S-4892-WD-G-A

Statler Tissue Company received Department approval on October 14, 1993 to use biomass incinerator ash sources for bulking the land filled sludge in Phase II south. Approved sources included International Paper Company, S.D. Warren Company, Lincoln Pulp and Paper, S.D. Warren Somerset, Scott Paper Company Winslow, Northeast Empire Limited Partnership Ltd., and Guilford of Maine.

DEP License # S-4892-WD-N-M

Statler Tissue Company received Department approval on January 27, 1994 to use biomass incinerator ash sources for bulking the land filled sludge in Phase II north. Approved sources included International Paper Company, S.D. Warren Company, Lincoln Pulp and Paper, S.D. Warren Somerset, Scott Paper Company Winslow, Northeast Empire Limited Partnership Ltd., and Guilford of Maine.

DEP License # S-4892-WD-Q-M

Statler Tissue Company received Department approval on May 4, 1994 to dispose six waste streams generated at the applicant's mill located on Riverside Drive in Augusta at the sludge landfill. The six waste streams are construction and demolition debris (300 cubic yards per year), sand & gravel (200 cubic yards per year), yard maintenance wastes (300 cubic yards per year), stumps and grubblings (10 cubic yards per year), fly ash/bottom ash from #6 fuel oil combustion (10 cubic yards per year), and non hazardous sand blast grit (100 cubic yards per year).

DEP License # S-4892-WD-R-M

Statler Tissue Company received Department approval on May 4, 1994 to use clean demolition wood chips and wood yard bottom waste to help stabilize the base of Phase II North and direct leachate into existing leachate collection systems on the west side of the site. The wood waste

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would be mixed with the sludge in accordance with the bulking requirements previously approved for incinerator ash bulking.

Statler Tissue Company received Department approval on May 19, 1994 to use construction and demolition debris from International Paper Company in Jay, Maine as a bulking agent at the landfill.

DEP License # S-4892-WD-U-M

Statler Tissue Company received Department approval on October 17, 1994 to use biomass boiler ash as a bulking agent for all paper mill sludge placed at the landfill. The operational and closing sequence plan was revised accordingly.

DEP License # S-4892-WD-W-M

Statler Tissue Company received approval on December 8, 1994 to use wood yard bottom waste and flume grit from Lincoln Pulp and Paper, and gravel, clay, and plastic from Area H of the International Paper Company landfill for stabilizing the landfill base.

TRANSFER

On March 25, 1996 the Department approved the transfer of the solid waste facility licenses held by Statler Tissue Company to Tree-Free Fiber Company, LLC.

C. Project Summary:

As of December 31, 1997, the applicant ceased landfilling operations at the sludge landfill due to the mill shut down. Mill start up dates are uncertain. The next development phase of the landfill is to fill the west side of Phase I to intermediate grade and install an intermediate cover pursuant to Department regulations. The applicant proposes to excavate non-bulked paper mill sludge from the east side of Phase I, bulk the sludge with ash, and use the stabilized sludge to bring the west side of Phase I to intermediate grade. Once the mill begins operations again, this stabilization procedure will be discontinued and filling procedures as described in the operational and closure sequence manual will be followed.

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2. FILLING AND EXCAVATION PLAN.

The applicant proposes to excavate approximately 7,050 cubic yards of sludge from the east side of Phase I. Sludge depth in this location of the landfill is 15 to 25 feet deep and has not been stabilized with ash as with other portions of the landfill. On a daily basis the excavated sludge will be transported to the west side of Phase I, bulked with biomass ash, and landfilled within Phase I West. The area of bulked sludge placement located on the west side of Phase I is approximately 4.2 acres with an estimated capacity of 14,100 cubic yards. The placement area is shown on attachment 2 of the application.

3. STORM WATER.

The applicant will be installing a 12 inch diameter culvert on the west side of Phase I and three 12 inch diameter culverts in the center and east side of Phase I. Section A-A and C-C on sheet 21 of the plan entitled Operational & Closing Plan Sequence Details drawn for Statler Tissue Company by Integrated Waste Solutions, Inc on September 26, 1994 depicts these installations.

4. MIXING AND COMPACTION.

Once the paper mill sludge is excavated from the east side of Phase I it will be transported to the west side of the same phase and blended with biomass ash at a rate of 1:1. Alternating lifts of sludge and biomass ash measuring approximately 6 inches thick will be applied to Phase I West. Heavy equipment will spread and compact the ash and sludge layer. This action causes the ash layer and overlaying sludge layer to blend and mix. At the end of each day the surface of the applied area is compacted with a smooth drum roller to maximize stability and provide a water shedding surface.

5. BULKING MATERIALS. The approved bulking material sources includes:

- A. International Paper, Jay, Maine;
- B. S.D. Warren, Westbrook, Maine;
- C. Lincoln Pulp & Paper, Lincoln, Maine;
- D. Kimberly-Clarke Paper Company, Winslow, Maine
- E. NorthEast Limited Partnership, LTD (Ashland, Livermore Falls, Maine);
- F. Forster Manufacturing Company, Wilton, Maine;
- G. Greenville Steam Company, Greenville, Maine;

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- H. J.M. Huber Corporation, Easton, Maine; and
- I. Worcester Energy Corporation, Deblois, Maine.

Only non hazardous sources as determined by a TCLP analysis in accordance with EPA method SW-846 shall be used.

Other approved bulking agents includes:

- A. clean wood chips from Jolly Farmer Products Company, Poland, Maine;
- B. wood yard bottom waste, construction and demolition debris, and gravel, clay, and plastic from Area H of the International Paper Company landfill, Jay, Maine; and
- C. wood yard bottom waste and flume grit material from Lincoln Pulp & Paper, Lincoln, Maine.

6. ESTIMATED COSTS.

The applicant has estimated the intermediate closing costs for Phase I-West to be approximately \$75,000. This is based on actual closure costs expended in 1997 for Phase II-South. The applicant has estimated that approximately 16,080 "loose" or 10,050 "in place" cubic yards of biomass ash (9,648 tons) will be required to satisfactorily bulk the sludge placed in Phase I-West.

The applicant is receiving tipping fees for the bulking material (biomass ash) received at the landfill. Sufficient funds generated from this project should be available to apply intermediate cover to Phase I-West. The applicant has not submitted financial assurance pursuant to 38 MRS 1310-Y. for the closure of Phase I-West.

7. ALL OTHER

All other Findings of Fact, Conclusions, and Conditions remain as approved in Department License #S-04892-WD-ZZ-N.

BASED on the above Finding of Facts, and subject to the Conditions listed below, the Department makes the following CONCLUSION:

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The minor revision to Department Order #S-04892-WD-ZZ-N, as proposed by TREE FREE FIBER COMPANY, LTD will not pollute any water of the state, contaminate the ambient air, constitute a hazard to health or welfare, or create a nuisance provided a form of financial assurance pursuant to 38 MRSA 1310-Y is submitted.

THEREFORE, the Department APPROVES the noted application of TREE FREE FIBER, LTD, SUBJECT TO THE ATTACHED CONDITIONS, and all applicable standards and regulations:

1. The Standard Conditions of Approval, a copy attached as Appendix A.
2. Within 30 days from the date of this approval, the applicant shall submit financial assurance for the intermediate closure of Phase I-West in accordance with 38 MRSA 1310-Y(1 & 2).

DONE AND DATED AT AUGUSTA, MAINE, THIS Nineteen DAY
 OF March, 1998.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

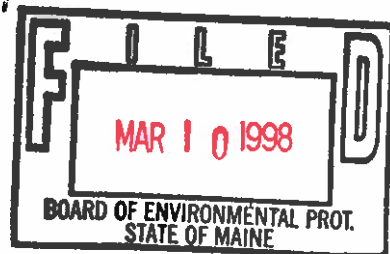
BY: [Signature]
 Edward O. Sullivan, Commissioner

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES.

Date of initial receipt of application: January 27, 1998.

Date of application acceptance: February 17, 1998.

Date filed with Board of Environmental Protection:



This Order prepared by William Butler, Bureau of Remediation and Waste Management.