

Submit to: Maine DEP
Attn: Vicky Bryant
17 State House Station
Augusta, Maine 04333

Due annually by February 28th

""Annual Report Form
""for facilities with
""SOLID WASTE PROCESSING LICENSGU
lpemf lpi 'vj qug'y kj 'BENEFICIAL USE LICENSES

For YEAR:

Name of Facility:

Location:

e-mail:

DEP Processing Facility License Number(s):

S-

S-

S-

S-

S-

DEP Beneficial Use License Number(s):

S-

S-

S-

S-

S-

Facility Operator:

Phone #:

Contractor Contact Person:

Phone#:

Billing Contact Person:

Phone#:

1. Description of all wastes accepted at the facility:

A. Enter the number or description of each waste type received and the amount (by weight) of each waste type **by state or province of origin**. If measured weight is not available, indicate waste volume and density used to calculate weight entered in the "Explanatory notes and comments" field at the bottom of the table. Please attach in-coming shipment records as available.

Facility:

Reporting Year:

Please use the following waste types as applicable to your facility:

- 1. Mixed CDD (may include building materials, furniture and carpet, asphalt, wall board, pipes, metal conduit, etc.)
- 2. Landclearing debris (brush, stumps, bark)
- 3. Clean lumber (free from metals, plastics and coatings)
- 4. Treated wood
- 5. Asphalt roofing & shingles
- 6. Sheetrock/wallboard/gypsum
- 7. Furniture
- 8. Carpet
- 9. Glass (describe type or source)
- 10. Metals - ferrous
- 11. Metals - non-ferrous
- 12. Metals - mixed
- 13. Tires
- 14. Vehicle batteries
- 15. Plastics
- 16. Mixed paper & corrugated cardboard (OCC)
- 17. Coal, oil or multifuel boiler ash
- 18. Oil-contaminated soil, gravel, other aggregate
- 19. Sandblast grit
- 20. Catch basin grit & street sweepings
- 21. Other (describe)

Waste type received	Origin by state or province	Amount received (break out by state/province)	Amount processed	Unit of Measure

Explanatory notes and comments:

Facility:

Reporting Year:

B. In-coming waste characterization. Attach results and a summary of all in-coming waste characterization events conducted in the reporting calendar year. This must include all data and results of the characterization of all wastes accepted at the facility, as well as the totals of data from your completed waste characterization forms (e.g., “Data Analysis Form” or other approved form) used to quantify by weight the recyclable and non-recyclable content of waste materials accepted for processing at the facility. (This item is not applicable to processing facilities that do not generate residuals requiring disposal.)

C. Amount of products shipped for beneficial use. Enter the number or description of each of the following processing product shipped, the amount shipped and the destination (users or facility). If you are using the material on-site, list the destination as “on-site”. Please use the following descriptors:

- a. CDD wood fuel chip
- b. Wood fuel chip
- c. Wood chip for landscaping
- d. Erosion control mix
- e. Tire fuel chip
- f. Tire chip for engineered applications
- g. Other (describe)

Description of processing products	Weight	Unit of measure	Destination – user or facilities

D. Residue characterization. Attach results and a summary of all out-going waste residue characterization events conducted in the reporting calendar year. This must include all data and results of the characterization of all waste residues shipped from the facility for disposal. (This item is not applicable to processing facilities that do not generate residuals requiring disposal.)

Facility:

Reporting Year:

E. Summary of recyclables and residual wastes shipped. Enter the description and amounts of any recyclables and wastes that were shipped off-site, and the destination facilities.

Recyclable or waste type (use types as listed in 1.A)	Destination State or Province	Weight	Unit of Measure	Destination facility

F. Recycling and beneficial use demonstration. Describe and demonstrate that all wastes accepted at the facility have been recycled or processed into fuel for combustion to the maximum extent practicable. For this demonstration, “recycle” includes but is not limited to: reuse of waste as shaping, grading or alternative daily cover at landfills; aggregate material in construction; and boiler fuel substitutes. This must include:

- A narrative with a detailed comparison of the wastes accepted at the facility, products and secondary materials produced for recycling/reuse, and residues leaving the facility for disposal.
- A calculated recycling rate for the past year, and a discussion of this recycling rate, including a specific explanation of why that rate represents recycling to the maximum extent practicable, and an explanation and justification for why wastes and residues dispose over the preceding year could not be recycled or reused.
- A demonstration that the facility and its operations are consistent with the recycling provisions of the state waste management and recycling plan as defined at 38 MRS §13-3-C(35).

(This item is not applicable to processing facilities that do not generate residuals requiring disposal.)

Facility:

Reporting Year:

G. Summary of end-of-year on-site storage. Enter the amounts of products, recyclables, and wastes stored on site as of 12/31.

Type of product, recyclables and waste stored on site as of 12/31	Weight (tons)	(If converting from cubic yards, use conversion factors from Table 1 of <i>Characterization of Construction/Demolition Debris by the Visual Estimation Method for Use by Solid Waste Processing Facilities</i> , available on-line at www.maine.gov/dep/waste/solidwaste/index.html under "Additional Information and Guidance".

2. Operations

Provide a summary of the processing operation including: a summary of complaints received by the facility during the previous year, a discussion of any odor problems, and any other problems encountered, and follow-up actions taken to address complaints and other identified problems.

3. Alterations to the facility operations and site

A description of changes to the facility site or operations that have occurred during the reporting year, and as-built plans as applicable. Also, changes to minor aspects of the facility site proposed to be changed in the current year may be described.

Facility:

Reporting Year:

4. Monitoring (if facility has a monitoring plan).

A summary and evaluation of past year's monitoring results, monitoring program and equipment; recommended changes may be submitted. Attach additional sheets or provide a separate attachment if additional space is needed.

Monitoring Results

Monitoring Program

Equipment

Recommended Changes (if any)

Signature of person completing this form _____

Printed name of person completing this form

PLEASE ATTACH ADDITIONAL PAGES AS NEEDED



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**ADDENDA TO
ANNUAL REPORT FORM
FOR FACILITIES WITH**

**SOLID WASTE PROCESSING LICENSES
INCLUDING THOSE WITH
BENEFICIAL USE LICENSES**

Maine Department of Environmental Protection

February 2014

B. In-coming waste characterization.

In August of 2013, ReEnergy purchased the KTI Biofuels operations from Cassella Waste. The attached results and summary of all in-coming waste characterization events includes both those performed under the KTI Biofuels operations and the ReEnergy Lewiston operations. ReEnergy has re-assigned personnel doing these evaluations and is providing on-going training. The end result is that the in-coming waste characterization forms are tracking closer to the overall facility recycling rate.

E. Summary of recyclables and residual wastes shipped.

<u>Other Waste Types</u>	<u>Destination</u>	<u>Weight</u>	<u>Unit</u>	<u>Destination Facility</u>
CFC's Evac.	ME	297	ea	Ozone Savers
CRT's/TV's	ME	1.21	Tons	North Coast Recycling
Medical Sharps	ME	18.5	cf	Stericycle
Fluorescent Bulbs, 4-foot	ME	22	ea	Gilman Electrical Supply
HIV Lamps	ME	10	ea	"
Mercury Switches	ME	2	ea	"
Tanks w/Propane	ME	31	ea	Lavigne's Cleaning Service, Inc

F. Recycling and beneficial use demonstration.

Construction and Demolition Debris contains a broad range of constituents, most of which is not wood that can be processed in to fuel for combustion. To separate out the wood for beneficial reuse as fuel, to the maximum extent possible, requires a combination of both mechanical and "hand" separation on a picking line. To maximize the wood recovery and enhance the fuel quality, ReEnergy Lewiston (REL) converted the wood recovery process from a negative pick to a positive pick in 2013.

Based on the in-coming waste characterization tracking, the Lewiston facility received between 5% and 25% wood on a monthly basis. Based on out-bound shipping information, 8% of REL's materials were shipped as CDD fuel. With the existing facility set-up and loss of weight related to the generation of wood fines, the 8% is the maximum amount of

CDD boiler fuel REL can recover. We are committed to continuing to make cost effective modifications to the processing facility to maximize the CDD boiler fuel we generate.

The overall facility recycling rate was 75% for 2013. Of this 8% was CDD boiler fuel, 64% was Alternative Daily Cover material, 1% aggregate, and 2% is metals and other recyclables that are recovered from the incoming waste stream. The 25% process residuals – bulky waste are materials including bulky wastes such as furniture and mattresses, treated wood that has no beneficial re-use market at this time, tarps, plastics, roofing materials, insulation and other materials that have been rendered non-recyclable by virtue of being mixed with CDD materials at job sites.

The 75% recycling/beneficial reuse rate exceeds the statutory recycling requirement of a minimum of not less than 50%. Also, as demonstrated in **Section E.** above, the facility is making an effort to remove a variety of items that are not received in large quantities, but which have important recycling impacts.

G. Summary of end-of-year on-site storage.

Attached is the calculations used to answer this question.

2. Operations

The REL facility operated for all 12 months of 2013. From January 1st thru July 31st, it was operated as KTI BioFuels, Inc. On August 1st, ReEnergy Lewiston (REL) assumed operations. There were a total of 197,803 tons of CDD received at the facility. The facility served a variety of projects in Maine, New Hampshire, Massachusetts, and Rhode Island. The inventory at the end of the year was just over 2,000 tons, 3,000 tons less than at the end of 2012. The scaled out weight of materials leaving the facility was 215,452 tons. This nets out to be a 7% increase in weight between materials accepted and materials shipped. This is within the range of what other CDD processing facilities experience. The reason for the increase is water absorbed while on-site being processed or snow that falls onto stockpiles. As indicated in Section F. of this report, the recycling rate for the facility was 75%.

There were no complaints received and no odor problems noted. Control of dust continues to be an on-going concern and continues to be the focus of improvements at the site. REL is currently working with the City of Lewiston and the MEDEP to erect a new fabric screen that will replace the wooden fence that existed near the OEM machine. This is anticipated to help reduce the migration of dust from the site.

3. Alterations to the facility operations and site

In order to increase recycling of higher value constituents of the incoming CDD, REL has modified the operations. The wood for CDD boiler fuel is being positively picked and then batch ground. This has allowed us to implement better quality control measures. In addition, REL is evaluating use of a cross-belt magnet for ferrous removal from fines; screening of OBW after the picking station for additional ADC; use of de-stoner to recover ABC from fines; and TBD processing to recover additional wood for combustion and/or evaluate combustion of wood-fines at in-state waste-to-energy facilities. The evaluation of each of these will include a cost/benefit analysis as well as the permitting requirements. The cross-belt magnet for ferrous recovery from the fines is already in process.

In addition, the site continues to move forward with a site remediation project that entails the removal of CDD materials that accumulated at the site over the life of the facility. This project is scheduled to be finished by the end of the second quarter of 2014. It is being executed in accordance to a MEDEP approved plan with regular MEDEP construction inspections.