

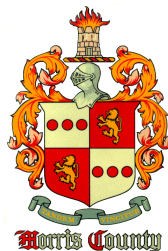
# Morris County New Jersey

## Solid Waste Management Plan Amendment

**Inclusion of RER Supply, L.L.C.  
Leaf, Grass and Tree Part Class C Transfer and Class B Processing  
Operation in the  
Borough of Riverdale, New Jersey**

**June 2011**

**Prepared for the  
Morris County Board of Chosen Freeholders**



**Prepared by the  
Morris County Municipal Utilities Authority  
Solid Waste Management Staff**



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## **Introduction**

The New Jersey Solid Waste Management Act (N.J.S.A. 13:1E-1 *et seq.*) established a comprehensive system for the management of solid waste in New Jersey. The Act designated all twenty-one (21) of the state's counties, and the Hackensack Meadowlands District, as Solid Waste Management Districts, and mandated the respective Boards of Chosen Freeholders and the Meadowlands Development Commission develop comprehensive plans for waste management in their respective districts. On January 29, 1981, the New Jersey Department of Environmental Protection (NJDEP) approved, with modifications, the Morris County District Solid Waste Management Plan (SWMP or Plan). The Act further requires that all new solid waste facilities be approved for Plan inclusion.

This document has been prepared to amend the Morris County Solid Waste Management Plan to include the RER Supply, L.L.C. leaf, grass and tree part class C transfer and class B processing operation in Riverdale Borough, Morris County, New Jersey (RER Facility) within the Plan.

## **Site Description**

The RER Facility is located at 4 South Corporate Drive, Riverdale Borough, Morris County, New Jersey. It is situated at the southwestern end of South Corporate Drive located about ¼ mile south of the intersection of South Corporate Road and Riverdale Road (see Figure 1 for a location map). The RER Facility is on block 30, lot 1.03 in Riverdale Borough. The property is 4.00 acres in size and the entire site will be utilized for this operation. The property is currently a vacant piece of land that has been cleared and is fully approved for construction by the Borough of Riverdale.

The transfer facility will consist of a Class C leaf transfer operation; a Class B wood waste transfer and processing operation and a grass transfer operation. The grass transfer operation will be fully enclosed in a building with a complete air handling system. The Class C leaf transfer operation will be conducted in both the enclosed facility and in the outdoor area designated for leaf transfer. The Class B wood waste transfer and processing operation will be conducted outdoors.

## **Source Area**

The RER Facility will receive, process, store and transfer source separated leaves, grass, tree and tree parts from Riverdale Borough and other communities within Morris County as well as other locations. There are no restrictions placed on the source areas generating the material that can be accepted by the RER Facility.

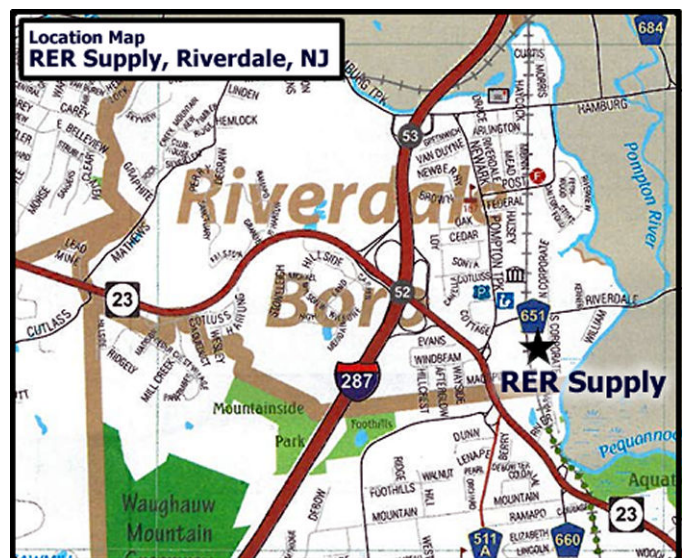


Figure 1 - RER Location Map, Riverdale, New Jersey

## **Type of Material**

Only clean, organic class B and Class C material will be accepted at the site. The materials received will not be limited in size. Specifically the applicant will be transferring:

- Class C Materials: Consisting of source separated yard waste; leaves, grass and general yard trimmings.
- Class B Materials: Source separated whole trees, tree trunks, tree parts, tree stumps, clean wood, brush and leaves in a commingled source separated fashion.

## **Facility Capacity**

Based on an 8,937 cubic yard on-site storage capacity limitation and proposed operation, the RER Facility has a total capacity of 238,068 tons per year. There additionally will be a daily capacity limit imposed on this facility of 1,000 TPD. This total capacity is further divided by material type as provided below.

- Leaves: Using the NJDEP conversion factors, leaves weigh 83 lbs. per cubic yard; the RER Facility has a capacity to accept a maximum of 5,748 tons of leaves per year.
- Grass: Using the NJDEP conversion factor of 280 lbs. per cubic yard; the RER Facility has a capacity to accept a maximum of 18,480 tons of grass per year.
- Clean Wood: Wood waste has varying densities and assuming the heaviest conversion factor of 1,080 lbs. per cubic yard; the maximum weight of clean wood that could be transferred or transferred and processed in a given year would equate to 213,840 tons per year.

## **Materials Handling and Process Flow**

The RER Facility is designed to receive only clean, non-treated (no painted, glued or chemically preserved wood) vegetative material. Among the features that have been incorporated to this site are state of the art storm water controls. Each outdoor receiving area is surrounded by a storm water collection system that will transfer surface water runoff to a detention/recharge basin.

Notwithstanding that surface water will be contained on site, the operator will install screens and filters as indicated on the site plan that will capture solids, further reducing the risk of any foreign matter being discharged from the property.

The RER Facility will also be equipped with a fully enclosed transfer operation. This building will contain a state of the art air handling system to effectively minimize any risk of odor migrating from the site. The vegetative transfer building will also be available for use outside of the grass season for the transfer of leaves if such materials present any risk of odor emanating from the property. Finally, this building will be used in the nontransfer season to house topsoil blends that might otherwise be effected

by rainfall, thus creating a risk of surface water total suspended solids. Finally, noise impacts will be mitigated by the transfer station building and the addition of a sound barrier wall in the direction of the nearest residential neighbors. Also, the operator will avoid grinding material on site to the greatest extent that is economically feasible, but in the event that grinding must take place on the property, he will utilize the area furthest from residential receptors to avoid exacerbating any possible noise issues.

- Acceptance of Materials: Vehicles will enter the recycling facility from South Corporate Drive via the paved entrance to the property. Vehicles will then travel along the paved drive to the office. Vehicles will stop at the office where they will be issued appropriate paperwork indicating the contents of the vehicle. Vehicles will be directed to the staging area where the vehicle contents will be inspected and discharged. Grass will only be discharged within the confines of the grass transfer station building. This building will be equipped with a state of the art and fully permitted air – handling system that is designed to eliminate objectionable odors. Class B and Class C material will only be accepted in loose form or in bags as approved by the NJDEP. Should any Class B or Class C material inadvertently be delivered in any unacceptable containers (plastic bags or boxes), these containers will be removed and disposed of in accordance with NJDEP requirements and the Morris County Solid Waste Management Plan. The Class B and Class C receiving areas are fully screened from the surrounding properties by natural vegetation. In addition a sound wall will provide additional screening for the operation.
- Vehicle Flow: Traffic will enter the property from South Corporate Drive. Vehicles will transit the existing entrance road through a newly installed gate. Prior to entering the receiving location, all traffic will be inspected and the vehicle number and the contents of the vehicle will be recorded. In addition, this will serve as the final point of inspection prior to off loading in order to insure that only approved materials are deposited at the facility. After vehicles have deposited their contents, the vehicle will exit the facility through the same road upon which they entered and will then be directed to Route 23, where they will depart the area.
- Material Preparation: With the exception of the class B wood processing operation, this is a transfer operation, there will be no specific material preparation on the site. However, inappropriate and non-acceptable materials will be removed where feasible, prior to trans-loading of the material to walking floor trailers.
- Screening, Blending and Marketing: The final preparation of the finished material will take place with the screening and blending of the material. The material will be screened and blended for final disposition.
- Stockpiling: When material is required to be stockpiled in the winter, the transfer building will be utilized to the greatest extent possible. The final product will be marketed from the stockpiled area throughout the year.
- Equipment: The equipment used will be appropriate to the type of technology. In addition to 100 cubic yard walking floor trailers, the site will contain a variety of loaders and a Morbark tub grinder as necessary to process Class B material.

## Traffic

Leaf transfer operations will be conducted on the property for approximately 26 weeks per year. Leaf transfer operations will be conducted in such a manner as to minimize traffic impacts through the timing of vehicles both entering and exiting the facility. A Grass transfer operation will be conducted within the site but will be contained within the confines of the grass transfer building located on the property. Transfer of grass is also generally limited to 26 weeks per year. Accordingly, all traffic impacts associated with grass transfer may appear inflated as they are condensed into a shorter than normal timeframe.

Grass will be received from landscape service companies in a wide variety of truck sizes up to 30 cubic yards. Typically, such vehicles arrive at transfer operations over the course of the service day in scattered fashion. However, in order to present its most severe impact, the traffic analysis is predicated on an average vehicle size of no more than 15 cubic yards.

All Class B and Class C material that is received at this facility will be removed from the transfer operation in 100 cubic yard walking floor trailers in order to minimize the total volume of vehicles utilized. The RER Facility is very close to State Route 23. In addition, the facility is located in an industrial zone that is already accustomed to heavy vehicle traffic. Accordingly, the proposed operation will have a negligible impact on the overall traffic patterns in this area. In fact, the proposed traffic route does not pass through a residential neighborhood at any time.

A maximum 8,937 cubic yards of material storage is available on site at any given time. This storage volume will allow the Applicant to stagger vehicle traffic more effectively should any given day indicate a negative impact on traffic flow in the area.

Traffic calculation are provided below:

- Class C Material (Leaves):
  - Assumptions:
    - Anticipated receipt over 6 months.
    - Anticipated delivery vehicle size - average 15 yd<sup>3</sup>/vehicle.
    - Anticipated maximum volume of leaves received during the course of a business day is 1,000 cubic yards
    - Anticipated vehicle size utilized for removal – 100 cubic yards
  - Therefore:
    - Average delivery of 1,000 yd<sup>3</sup> of leaves per day = A maximum throughput of 132,000 (yd<sup>3</sup>/6 months).
    - Operation of 5.5 days per week = 22 days per month.
  - Conclusion:
    - Truck Delivery Trips : 67 x 15yd<sup>3</sup> vehicles per day to the recycling facility.
    - Total Delivery Trips: 134 truck trips per day (67 enter/67 exit) over a period of no more than six (6) months.
    - Total Transfer Trips: 10 trucks leaving the facility each day; therefore 20 truck trips

- per day (10 enter/10 exit).
  - Total Trips (Delivery and Transfer) Resulting From Leaf Transfer: 154 truck trips per day.
  - Based on an 8-hour workday, this equates to no more than 19 truck trips per hour.
- Class C Material (Grass):
  - Assumptions:
    - Anticipate receipt over 6 months with higher volumes anticipated in the months of April, May & June and September and October.
    - Anticipated delivery vehicle size – average 15 yd<sup>3</sup>/vehicle.
    - Anticipated maximum volume of grass received during the course of a business day is 1,000 cubic yards.
    - NOTE: Grass volumes are seasonal and variable during the grass season. Additionally, grass volumes tend to occur in alternate months to those of leaves. Accordingly, the traffic estimates presented are more than likely a severe worst case scenario and not representative of the actual volumes that might be received.
    - Anticipated vehicle size utilized for removal – 100 cubic yards
  - Therefore:
    - Average delivery of 1,000 yd<sup>3</sup> of grass per day = a maximum throughput 132,000(yd<sup>3</sup>/6 months).
    - Operation of 5.5 days per week = 22 days per month.
  - Conclusion:
    - Truck Delivery Trips: 15 yd<sup>3</sup> vehicles per day.
    - Total Delivery Trips: 134 truck trips per day (67 enter/67 exit) over a period of no more than six (6) months.
    - Total Transfer Trips: 10 trucks leaving the facility each day; therefore 10 truck trips per day (10 enter/10 exit).
    - Total Trips (Delivery and Transfer) Resulting From Grass Transfer: 154 truck trips per day.
    - Based on an 8-hour workday, this equates to no more than 19 truck trips per hour (incoming and outgoing).
- Class B Material (Clean Wood):
  - Assumptions
    - Anticipated receipt over 12 months.
    - Anticipated delivery vehicle size - average 20 yd<sup>3</sup>/vehicle.
    - Anticipated maximum volume of clean wood received during the course of a business day is 1,500 cubic yards
    - Anticipated vehicle size utilized for removal is 100 cubic yards
  - Therefore:
    - Average delivery of 1,500 yd<sup>3</sup> of clean wood per day = total throughput of 396,000(yd<sup>3</sup>/12 months).
    - Operation of 5.5 days per week = 22 days per month.

- Conclusion:
  - Truck Delivery Trips: 75 x 20yd<sup>3</sup> vehicles per day to the recycling facility.
  - Total Delivery Trips: 150 truck trips per day (enter/exit) over a period of 12 months.
  - Total Transfer Trips = 15 trucks leaving the facility each day; therefore 30 - truck trips per day (enter/ exit).
  - Total Trips (Delivery and Transfer) Resulting From Clean Wood Transfer: 185 truck trips per day.
  - Based on an 8 - hour work day, this equates to no more than 23 truck trips per hour.
  -

Thus, on a twelve month basis, the maximum projected truck trips are projected at 339 per day. This assumes that the facility will achieve maximum volumes on each day of each material; an unlikely scenario. However, as the facility operator has direct control over the property, and as he has significant storage capacity for the vegetative material on site (equal to approximately 2.5 days), it is reasonable to conclude that this maximum number of vehicle trips will not occur on any given day. Accordingly, this will be the only access point to and from the facility.

Therefore, overall traffic impacts will be minor, as the facility is located within an industrial zone that already experiences heavy truck traffic at this time. Additionally, it should be remembered that the municipality has fully approved the facility operation and site plan. Finally, traffic impacts will be seasonal in nature with the peak traffic occurring between the months of October and December for leaves; grass deliveries generally do not begin until April and end in October (Although this represents a time period of 7 months, a 6 month delivery period has been utilized for this calculation based on the primary growing season for grass). In fact, the expected delivery of grass will be over a lesser time period depending on weather impacts.

### **Hours of Operation**

The facility will accept materials and operate in accordance with the following schedule:

- Monday – Friday – 7:00 A.M. – 5:00 P.M
- Saturday - 7:00 A.M. – 3:00 P.M.

### **Access To The Facility**

RER Facility shall grant access to designated representatives of the Morris County Solid Waste Advisory Council, Morris County Municipal Utilities Authority, Morris County Office of Health Management, Riverdale Borough, Certified County Lead Agency from any county that waste is received from, Local Health Department, and the New Jersey Department of Environmental Protection for the purpose of inspection of site operations and waste management records.

**Municipal Input:** Appendix A includes a copy of a the Borough of Riverdale Resolution No. 32-2011 adopted on April 18, 2011 providing non-binding support for including the RER Facility in the Plan.



## **Plan Amendment**

Pursuant to N.J.S.A. 13:1E-1 et. seq. Morris County proposes to include the leaf, grass and tree part class C transfer and class B processing operation owned and operated by operated by RER Supply, L.L.C., Borough of Riverdale (block 30, lot ), Morris County, New Jersey into the Morris County Solid Waste Management Plan. A map illustrating the site location has been included in Figure 1.

This proposed plan amendment is in conformance with the approved SWMP by providing for the management of solid wastes generated in Morris County.

To insure the broadest possible participation by the general public in this plan amendment process, the Morris County Board of Chosen Freeholders will conduct a public hearing. All County residents, public officials or organizations interested in this action are encouraged to attend the public meeting and offer testimony.

Inquiries and written comments or questions concerning this proposed plan amendment may be addressed to:

Morris County Board of Chosen Freeholders  
P.O. Box 900  
Morristown, New Jersey 07963-0900

Morris County Municipal Utilities Authority  
P.O. Box 370  
Mendham, New Jersey 07945-0370

**BOROUGH OF RIVERDALE**

**RESOLUTION NO. 32 - 2011**

**RESOLUTION SUPPORTING THE APPLICATION OF RER SUPPLY FOR INCLUSION IN THE MORRIS COUNTY SOLID WASTEPLAN FOR A CLASS "B" AND CLASS "C" VEGETATIVE WASTE TRANSFER/PROCESSING FACILITY**

**WHEREAS**, RER Supply (RER) has applied to the Morris County Solid Waste Advisory Council (SWAC) for inclusion in the County Solid Waste Management Plan as a Class "A" and Class "B" vegetative waste transfer/processing facility; and

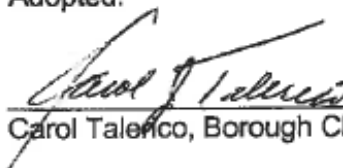
**WHEREAS**, the RER facility is located at 4 South Corporate Drive in the Borough of Riverdale (Block 30, Lot 1.03 as shown on the Tax Map of the Borough of Riverdale); and

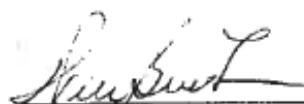
**WHEREAS**, the Borough Council has reviewed the application submitted by RER and supports the inclusion of the Riverdale facility in the Morris County Solid Waste Plan

**NOW, THEREFORE, BE IT RESOLVED** by the Borough Council of the Borough of Riverdale, in the County of Morris and State of New Jersey, that the Borough Council supports the inclusion of the RER facility is located at 4 South Corporate Drive in the Borough of Riverdale in the County Solid Waste Management Plan as a Class "A" and Class "B" vegetative waste transfer/processing facility; and

**BE IT FURTHER RESOLVED**, that the Borough Clerk shall forward a certified copy of this Resolution to the Morris County Solid Waste Advisory Council (SWAC)

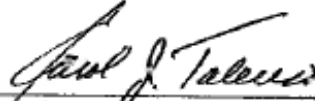
Adopted:

  
\_\_\_\_\_  
Carol Talenco, Borough Clerk

  
\_\_\_\_\_  
William Budesheim, Mayor

**CERTIFICATION**

I, Carol J. Talerico, Municipal Clerk of the Borough of Riverdale do hereby certify that the attached is a true copy of a Resolution duly adopted by the Mayor and Council of the Borough of Riverdale on April 18, 2011 at a regular meeting.



\_\_\_\_\_  
Carol J. Talerico, R.M.C.  
Municipal Clerk