RESOURCE MANAGEMENT, INC.

- RMI is a regional organic residuals recycling company based in Holderness, NH.

- RMI employs 25 people including agronomists, compliance specialists, field technicians, truck drivers, operations, sales, and project managers.

- Annually, RMI recycles over 325,000 cubic yards of organic residuals throughout the Northeast.
SPREADING DEMONSTRATION FROM YESTERDAY…..

RMI provides solutions for municipal treatment plants and industry throughout the northeast by connecting farmers and land owners with residuals that bring them value.
Morrill Farm

The Morrill family has grown corn on their home farm fields for generations. Biosolids and short paper fiber supplement their limited manure supply to provide fertilizer and organic matter for their corn crop.
Biosolids are a nutrient-rich fertilizer high in organic matter and micro-nutrients essential for hardy plant growth.
SHORT PAPER FIBER

Short paper fiber (SPF) is a residual from the paper making process. It has a high organic matter and can be recycled for many uses.

- Soil Amendment
- Animal Bedding
- Manufactured Topsoil
- Landfill Closures
Short paper fiber (SPF) increases organic matter and improves soil tilth.
The Challenge:
Tropical Storm Irene turned a fertile pasture into a stripped wasteland.

The Solution:
RMI blended short paper fiber and biosolids to create a topsoil to restore the loss of thousands of yards of soil and vegetation and put the pasture back together again.
Irene Cleanup Effort Summer 2012
Restored Pasture Using Manufactured Topsoil - 2013
The Challenge:
The only land available to a small community to create a youth soccer field was a former gravel pit.

The Solution:
RMI blended short paper fiber, biosolids and a mineral base to create an engineered topsoil that would take the abuse of athletics and support a lush vegetative cover. Hydroseeding provided a nice even pattern of grass growth.
The Challenge:
Due to the very sandy nature of the soils at Mt. Toby Farm’s Bull Hill fields, drought conditions were common and the yields were consistently lower than those from nearby fields with better soils.

The Solution:
RMI applied short paper fiber to increase the organic matter and enhance the water holding capacity of the soil.
In addition the use of these residuals increased the % crude protein in the corn silage by nearly a full percentage point - from 2.2 to 3.1.
Building Organic Matter in Droughty Soils – Silage Corn

Silage Corn Tissue Analysis

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Amended</th>
<th>Non-Amended</th>
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<tbody>
<tr>
<td>% Phosphorus</td>
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<td>% Potassium</td>
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<td>% Magnesium</td>
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<tr>
<td>Cu:Mo ratio</td>
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- SPF and biosolids were applied to soil surface and plowed in with dairy as potassium source
- 500 cubic yards per acre application rate
- Equivalent to 60 dry tons per acre of fresh organic matter and close to 60 tons of lime equivalence per acre
The Challenge:
Once mining operations were completed at the sand pit, the remaining “soil” was truly sand, with little to no nutrients or organic matter. The former pit needed to be transformed and required organic matter and essential soil nutrients in order to achieve the goal of creating a productive hay field.

The Solution:
RMI worked with the property owner to develop a restoration plan to create a new topsoil layer and the entire pit was seeded down to create a hay field. This field now outperforms other local fields in terms of yield and quality.
Resource Management, Inc. used Topsoil Manufactured from Short Paper Fiber from a deink mill using heat dried biosolids as the nutrient source.

Spent Gravel Pit – No Topsoil on Site
Reclaimed as Hay Field

Topsoil Manufactured from deink mill short paper fiber with heat dried biosolids as the nutrient source
IVEK SOLAR FARM

The Challenge:
The best locations for siting a solar farm is a wide open area with maximum exposure. A former gravel pit offered an ideal location for Ivek’s facility, but did not support any vegetation.

The Solution:
RMI worked with the property owner to develop a restoration plan to establish a lush vegetative cover, which reduced dust and protected Ivek’s solar equipment.
Spent Gravel Pit ➔ Hayfield in One Field Season

Focus on providing crop nutrition and long-term nutrient balance

Nitrogen and base cation (calcium, magnesium and potassium) balance are critical for long-term success on agricultural fields
Sites can take longer to establish and sustain crop
Residuals Make a Difference

- Locally produced residuals provide cost-effective alternative to expensive fertilizers
- Can create topsoil and restore land where there is no other source of loam
- Provides value to farmers and landowners
- Proven long-term success using recyclable organic materials
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