Air and Water Management Association

Green Remediation
October 27, 2016
Company Overview

- We have 1,900 employees serving over 170,000 customers
- Traded on NASDAQ as CWST
- Over $546M in annual revenue
- Operations in MA, ME, NH, NY, PA, and VT
- Customers in over 40 states
- Vertically integrated collection, transfer, disposal and recycling operations
- Recovering nearly 800,000 tons of recycling & over 450,000 tons of organics for beneficial use each year
- Since 2005, we have cut our companywide carbon emissions by over 50%
CASELLA FOOTPRINT

- Hauling Facilities
- Recycling Facilities
- Organics Facilities
- Landfills
- Landfill Gas-to-Energy
- Transfer Stations

Our Customers
Organics Group | Residuals Management & Recycling

WWTP’s & COMPOST FACILITIES

PAPER MILLS

POWER PLANTS
PRODUCING AND PROMOTING QUALITY SOIL AMENDMENTS
Products

- Compost
- Mulch
- Liming Agents
- Container Media
- Topsoil Amendment
- Fertilizer
- Roof Top Gardens
- Wetland Soils
- Bioretention Cells
- Biofilter Media
- Engineered Soils
# Soil Amendment Trace Metal Comparison

**Product:** Hawk Ridge Compost  
**Updated:** April 15, 2014

<table>
<thead>
<tr>
<th>METAL</th>
<th>EPA STANDARD&lt;sup&gt;1&lt;/sup&gt;</th>
<th>ME DEP STANDARD&lt;sup&gt;2&lt;/sup&gt;</th>
<th>HAWK RIDGE COMPOST&lt;sup&gt;3&lt;/sup&gt;</th>
<th>Average US Ag Soil&lt;sup&gt;4&lt;/sup&gt;</th>
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<tbody>
<tr>
<td>ARSENIC</td>
<td>41</td>
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<td>CADMIUM</td>
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<td>CHROMIUM</td>
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<td>COPPER</td>
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<td>LEAD</td>
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<td>MERCURY</td>
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<td>MOLYBDENUM</td>
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<td>NICKEL</td>
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<td>SELENIUM</td>
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<td>ZINC</td>
<td>2800</td>
<td>2000</td>
<td>257</td>
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<sup>1</sup> USEPA 40 CFR Part 503 Regulations, promulgated 1992  
<sup>2</sup> ME DEP - Solid Waste Regulations, Chapter 419, Table 419.3, promulgated 1999, updated 2012  
<sup>3</sup> Hawk Ridge Compost, average metals values, 2014, analyses by Maine Environmental Laboratory  

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Closed loop Recycling supports local farms

- Conventional and Organic products
- Liming agents, animal bedding, fertilizer, wood ash, & compost
- Technical assistance provided including soil sampling
- More than 35 spreaders available
- Agronomist & crop advisors on staff
- Sustainable solutions for industries generating byproducts
The value of recovered nutrients: biosolids

- 4.5% nitrogen by weight
- .22 gallons of fuel used to make every lb of synthetic fertilizers
- Provides water in drought conditions
- Micronutrients
- Available in multiple forms
  - Cake
  - Pelletized
  - Liquid
Agricultural Land Application
Hay in Draught Conditions

• “aggressive enhancement program”.
• 150 tons of earthlife® pellets/year for 4 years = fields that are:
  • proper pH
  • right blend of nutrients and trace minerals
• Hay volume is ahead of last year
• Farmer finished cutting 110 acres in record time AND got a second crop
SITE RESTORATION
LANDFILL AND SITE CLOSURE

Vegetative Cover (Perennial Grasses)

Vegetative Support Layer (BioMix™)

Geotextile

Drainage Layer (Tire Chips)

FiberClay™ Barrier/Buffer Layer

Flexible Membrane Layer

Reworked Interim Cover

Waste

Pelham Landfill Cap System
Pelham, NH
1998
BioMix™ Topsoil
FiberClay™ Barrier/Buffer Layer
LANDFILL BARRIER LAYER
VEGETATIVE SUPPORT LAYER
Committed and Passionate Crew
Thank you!