



Biosolids Reuse Monthly Report

NUTRIENTS and CARBON RECYCLING

FARMING

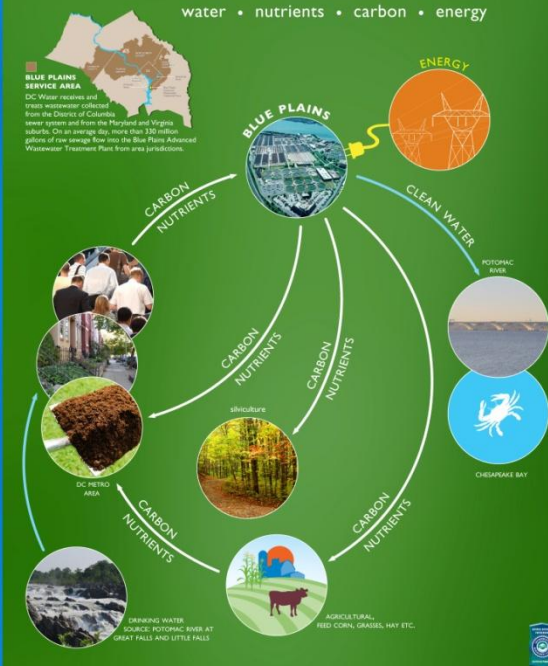
Provides carbon and nutrients valued at \$300.00 per acre.

SILVICULTURE

Increases yield and improves undergrowth.

RECLAMATION

Restoring miles to their natural state and providing wildlife habitats.


URBAN RESTORATION

Grow trees and reduce runoff.




BLUE PLAINS ADVANCED WASTEWATER TREATMENT PLANT: A RESOURCE RECOVERY FACILITY


water • nutrients • carbon • energy



dcwater.com/biosolids

GREEN ENERGY BIORENEWABLES

POWER FROM THE PEOPLE


THERMAL HYDROLYSIS PROCESS (THP) AND DIGESTION FACILITY

DC Water will be the first in North America to use thermal hydrolysis for wastewater treatment. When completed, this facility will be the largest plant of its kind in the world.

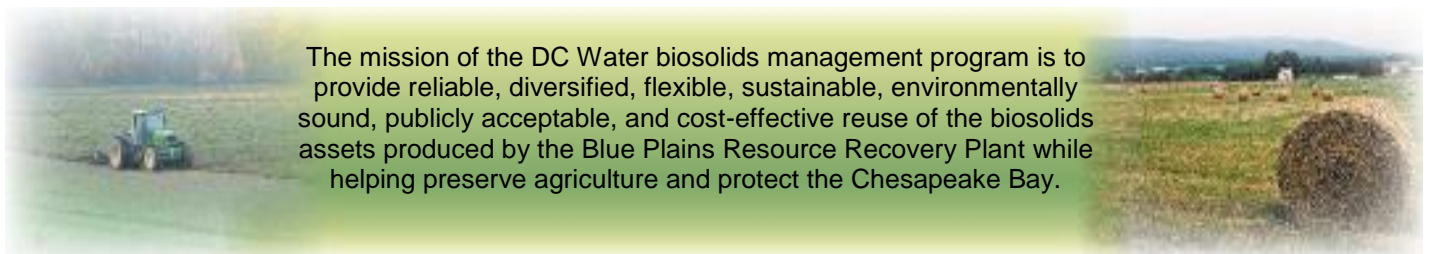
GREEN BENEFITS:

- Produce combined heat and power, generating 13 MW of electricity
- Save DC Water \$10 million annually cutting grid demand by a third (DC Water is the largest consumer of electricity in the District)
- Reduce carbon emissions by approximately 50,000 metric tons of CO₂e per year.
- Reduce trucking by 1.7 million miles per year.
- Save \$10 million in biosolids trucking costs
- Produce Class A biosolids to grow trees, sequester carbon and reduce runoff.

DC Water

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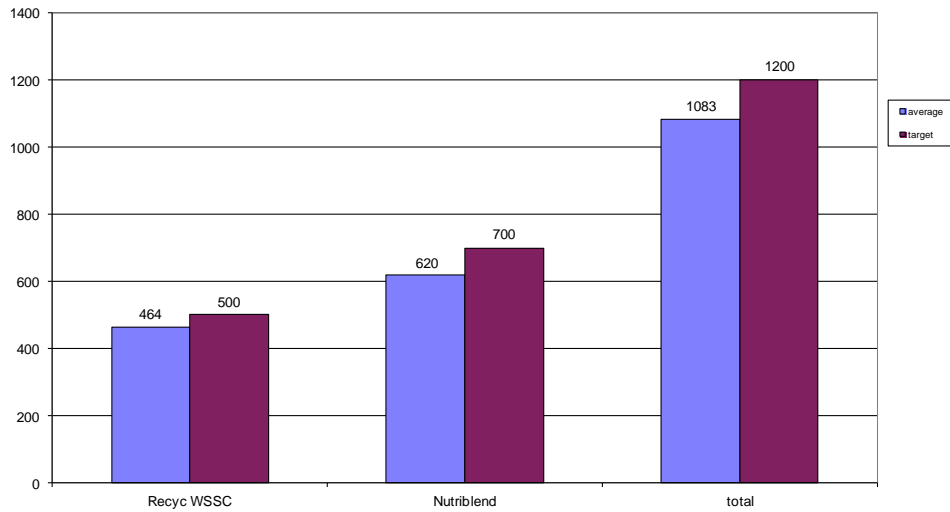
The mission of the DC Water biosolids management program is to provide reliable, diversified, flexible, sustainable, environmentally sound, publicly acceptable, and cost-effective reuse of the biosolids assets produced by the Blue Plains Resource Recovery Plant while helping preserve agriculture and protect the Chesapeake Bay.



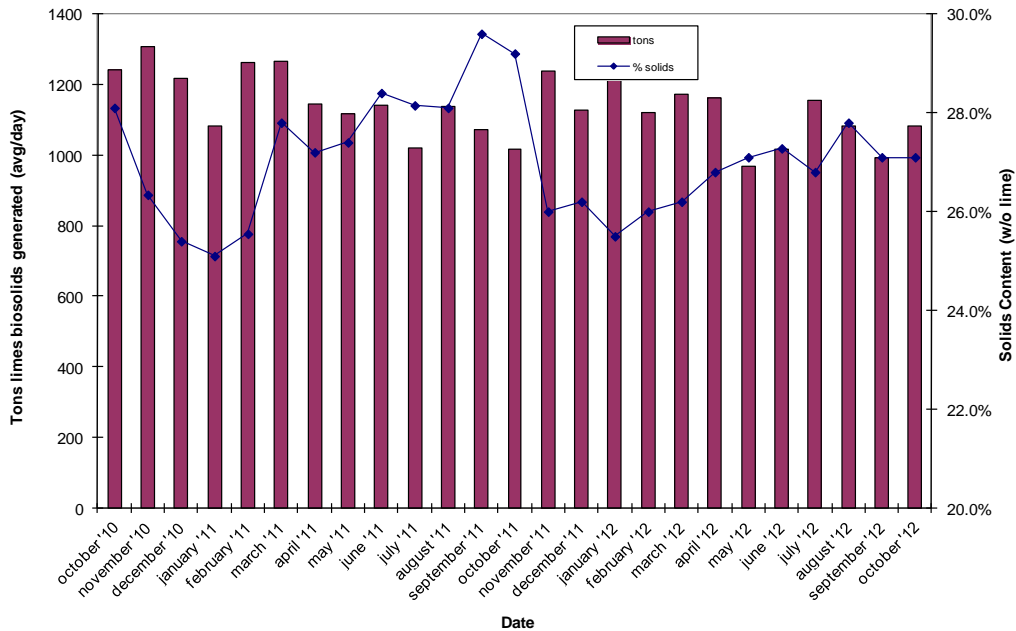
October 2012 Biosolids Division Report

In October, biosolids hauling averaged 1083 wet tons per day. The graph below shows the hauling by contractor for the month of October. Average % solids for the unlimed cake was 27.1%. Average lime dose for the month was 15.0%. Nutriblend took 449 tons of biosolids to the Spottsylvania County compost facility. At the end of October the Cumberland County storage pad had 6347 tons (~25,000 tons capacity), and the Cedarville lagoon had 836 tons (~30,000 tons capacity).

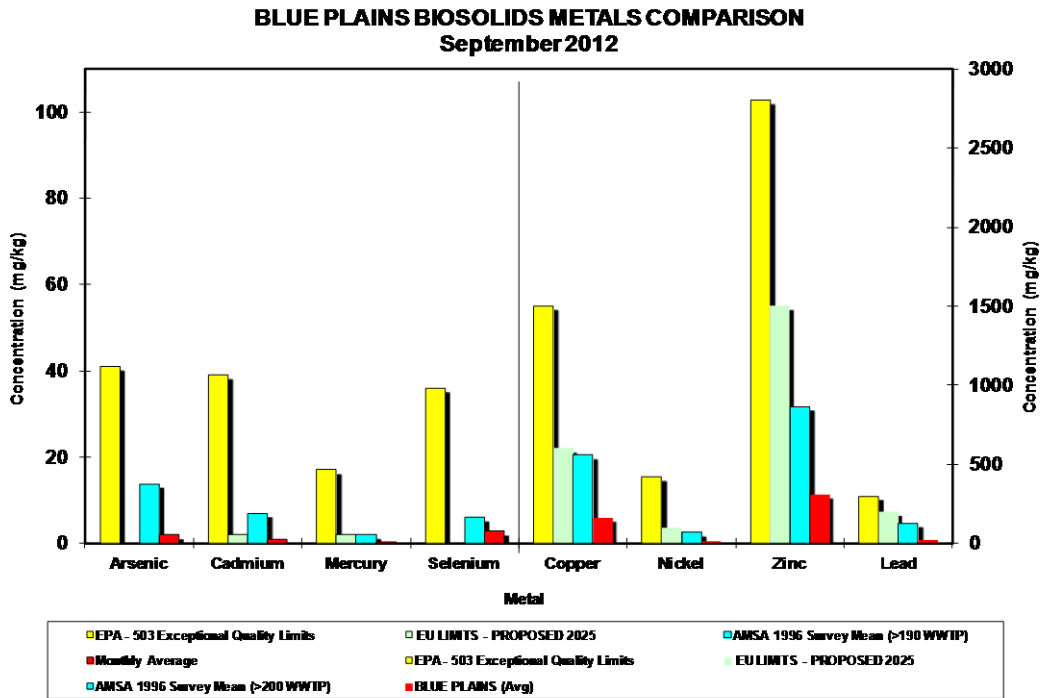
Average Daily Hauling by Contractor for October 2012



Average Daily Biosolids Production and Solids Content



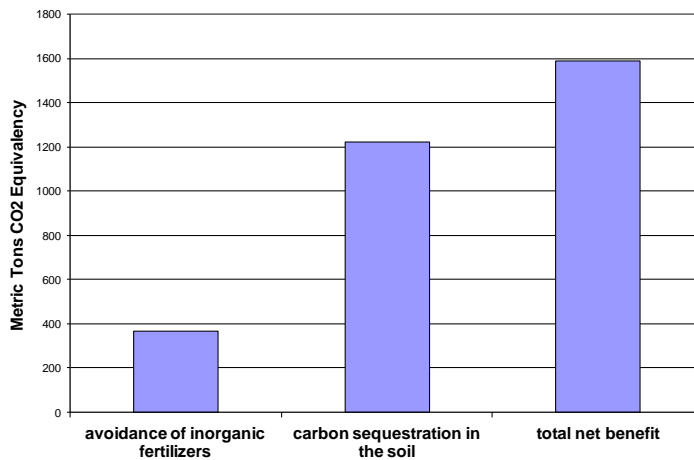
The graphs below show the EPA regulated heavy metals in the Blue Plains biosolids for the month of July 2012. As can be seen in the graphs, the Blue Plains levels are considerably below the regulated exceptional quality limits, the national average levels surveyed in 1996, and the European Union (EU) limits. The EU limits are more conservative than the USEPA limits, and Blue Plains biosolids metals content is lower than the EU standards as well.



Environmental Benefits

The quantity land applied coming directly from the plant and from storage facilities equaled 27,561 tons. Taking into account the fuel required to transport biosolids to the field, the net benefit of the land applied material is 1587 metric tons CO₂ equivalent avoided emissions. This is equivalent to taking 3,233,724 car miles off the road in the month of September (assumes 20 mpg, 19.4 lb CO₂ equivalent emissions/gallon gas – EPA estimate). The cumulative total avoided carbon emission since December, 2006 is 108,575 metric tons CO₂ equivalent.

DCWASA Biosolids Recycling Program Greenhouse Gas Balance Benefits September 2012 Totals



Map of Blue Plains Biosolids Applications and Agricultural \$'s for September 2012

