

May, 2012

Biosolids Reuse Monthly Report



DC Water

Resource Recovery Division 5000 Overlook Avenue SW Washington, DC 20032 202-787-4329; 202-787-4226 (fax) cpeot@dcwater.com



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.



May 2012 Biosolids Division Report

In May, biosolids hauling averaged 1203 wet tons per day. The average solids content before liming was 27.1%. The average lime dose was 24.2%. The graph below shows the hauling by contractor for the month of May. In May, DC Water again shipped biosolids to the McGill Compost Facility in Waverly, VA. This is done through the Urban Service Systems contract. In May a total of 119 tons went to compost production. At the end of May the Cumberland County storage pad had 4979 tons (~25,000 tons capacity), and the Cedarville lagoon (~30,000 tons capacity) had zero tons.



Average Daily Hauling by Contractor for May 2012





The graphs below show the EPA regulated heavy metals in the Blue Plains biosolids for the month of April 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 37,902 tons. In addition, 2,737 tons went to composting. Taking into account the fuel required to transport biosolids to the field, the net benefit of the land applied material is 2,309 metric tons CO_2 equivalent avoided emissions. This is equivalent to taking 4,702,839 car miles off the road in the month of April (assumes 20 mpg, 19.4 lb CO_2 equivalent emissions/gallon gas – EPA estimate). The cumulative total avoided carbon emission since December, 2006 is 100,950 metric tons CO_2 equivalent.



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

