



To: Dr. Jack Miller, Interim City Manager

From: Clark Annis, Wastewater Treatment Facilities Manager

Cc: Mayor Graham
Mayor Pro Tem
Members of Council

Date: August 27, 2013

Re: Biosolids Distribution

In 2012 Crossville Wastewater generated and distributed 2,240 tons on EPA Class A Biosolids.

The Biosolids were equally distributed to Dennis Hinch and J. Paul Smith by direction of previous City Manager. The current two pick the material up and land apply for agriculture use (pasture and hay).

This has been working great, but I often get a request by others who are interested in the material and get upset sometimes why they can't get the material. We do regular Ag analysis on the Biosolids and value it based on contents and current soil amendment products current cost. IN 2012 the value of our Biosolids product was \$71,473 and distributed at 8-10 tons per acre is worth about \$184.00 per acre. Crossville has developed an excellent Biosolids program that has won several awards for beneficial reuse and even been audited by EPA as well as TDEC several times.

There are few municipalities that actually sell their Biosolids. Most have the opposite problems – the high cost of disposal to landfills. There are concerns that would need to be discussed to include legal liability, how you would sell, bulk? By the ton? It would be difficult to scale each load. If you mass distributed to several entities you risk nearby neighbors getting upset because of what the product is and bad Public Acceptability could kill a good program and disposal option!

These are just a few concerns! I will follow any direction the Council in regard to our Biosolids distribution and will be glad to provide any additional information requested to help establish a different distribution method if council desires to do so.



To: Mr. David Rutherford, City Manager
From: Clark Annis, Wastewater Treatment Facilities
Cc: Mayor, Mayor Pro-Tem, Members of Council
Date: September 27, 2013
Re: Crossville Biosolids Distribution

There have been recent request by area farm property owners to receive Crossville biosolids. In 2012 2,240 tons of EPA Class A Exceptional Quality Biosolids were equally distributed to Dennis Hinch and J. Paul Smith who load, haul by truck and land apply to pasture and hay fields. Both Mr. Hinch and Mr. Smith follow all EPA and TDEC rules and regulations for land application of biosolids.

Options for distribution of biosolids were recently discussed at a council workshop to include bulk bidding of an annual basis.

Options for distribution of biosolids other than our current program are:

- Annual bulk bid distribution
- Rotating distribution list by interested qualified property owners in Cumberland County

Those interested in receiving biosolids by bid or rotating list should be required to be pre-qualified by having equipment to load, haul, store and land apply by a method in compliance with EPA and TDEC rules and regulations, and follow the UT Agriculture Extension Service best management practices (BMP) for land application of biosolids. These are available on web sites.

Multi-site biosolids distribution near residential areas run risk of nuisance complaints and public acceptance concerns.

Multi-site storage of biosolids should also be managed to prevent run-off to area lakes, ponds, and streams.

Biosolids should also be hauled in a manner to prevent spillage of material on highways or following vehicles.

Biosolids should be spread based on soil test and nutrient application rates for crop and desired yield rates.

Any new biosolids product distribution program as directed by council will be implemented and every effort will be made to make it successful.