

## ***PA- Supplemental Guidance***

**WQL-14** **Land Application of Treated Manure** – Some acceptable chemical treatments that treat both odor and pathogens are:

Lime – additional costs to mix and haul lime, most economical of all chemical treatment options. Good for odor control.

Chlorine – effective against bacteria, less effective against viruses and protozoa

Ozone - solid separation followed by ozone treatment or manure liquids

UV irradiation of manure – effective against bacteria and protozoa, less effective against viruses

Pasteurization of manure – heat manure to 158°F and maintain temperature for a minimum of 30 minutes

Is not applicable with bio-solids

Cropland –System/acre

Not compatible with ANM21, ANM22, SOE02

Pastureland –System/acre

Not compatible with WQL22