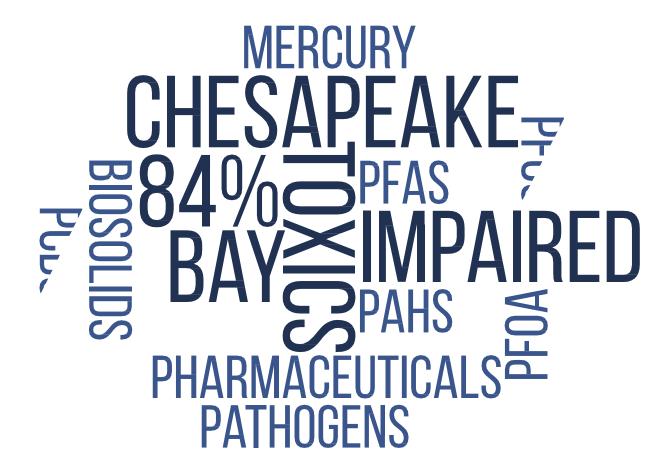


Blame it on Gizmo!



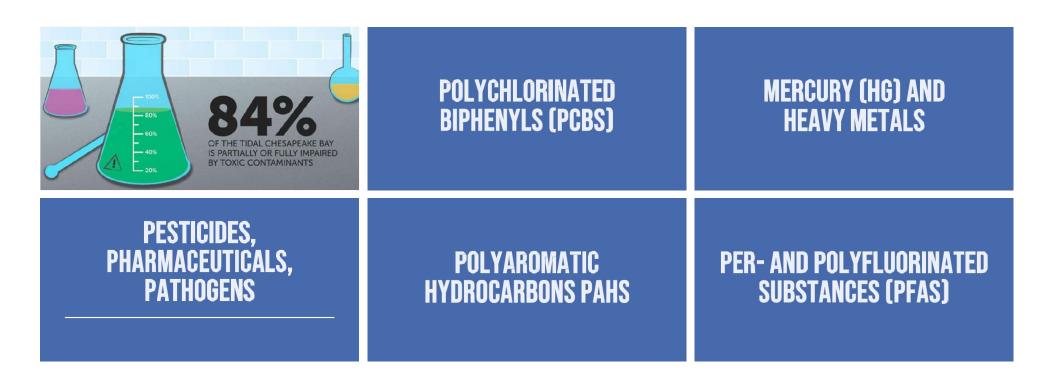


The Chesapeake Bay Toxics Strategy Includes the Following Actions:

- 1. Regulating industrial discharge.
- 2. Limiting the use of harmful pesticides.
- 3. Reducing runoff from urban and agricultural areas.
- 4. Monitoring the health of the watershed.
- 5. Addressing pollutants present in the environment.

PRIORITY TOXIC POLLUTANTS IN THE CHES BAY WATERSHED

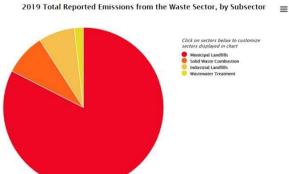
According to data submitted to the U.S. Environmental Protection Agency in 2018, 84 percent of the Chesapeake Bay's tidal segments are partially or fully impaired by toxic contaminants. (Source: Chesapeakebay.net)





• Number of reporters and emissions in the waste sector (as of 9/26/20)

2019 Total Reported Direct Emissions from Waste, by Subsector (as of 9/26/20)



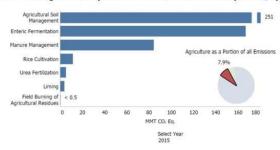




5. Agriculture

Agricultural activities contribute directly to emissions of greenhouse gases through a variety of processes. This chapter provides an assessment of methane (CH_4) and nitrous oxide (N_2O) emissions from the following source categories: enteric fermentation in domestic livestock, livestock manure management, rice cultivation, agricultural soil management, and field burning of agricultural residues, as well as CO_2 emissions from liming and urge fertilization (see Figure 5-1). Additional CO_2 emissions and removals from agriculture-related land-use and management activities, such as cultivation of cropland and conversion of grassland to cropland, are presented in the Land Use, Land-Use Change, and Forestry chapter. Carbon dioxide emissions from on-farm energy use are reported

Figure 5-1: 2015 Agriculture Chapter Greenhouse Gas Emission Sources (MMT CO₂ Eq.)



















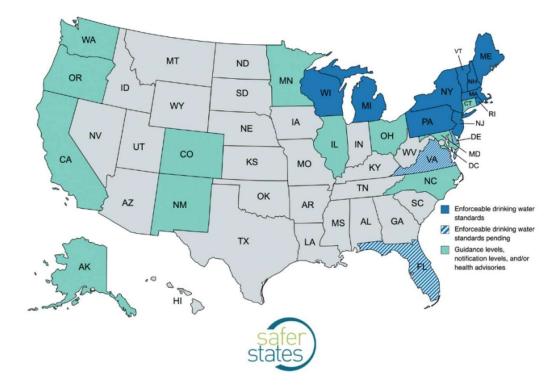






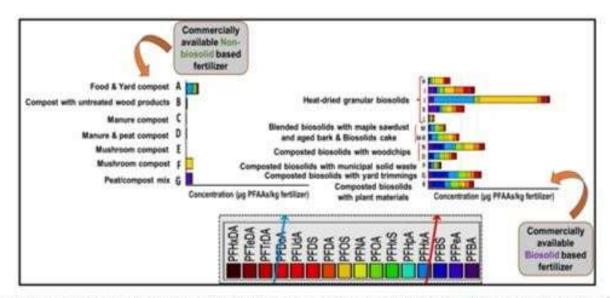






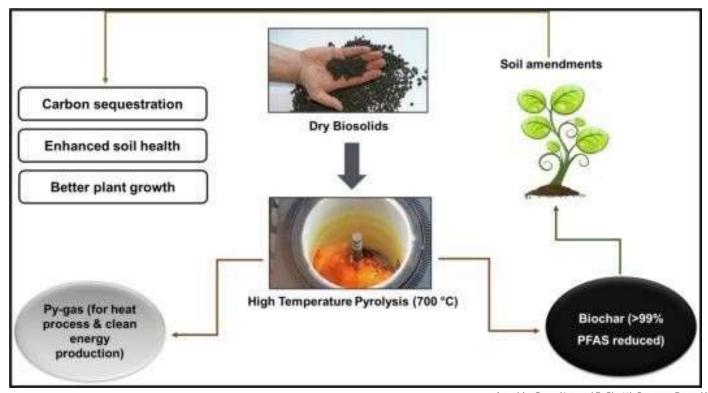
DISTRIBUTION OF CONVINERCIALLY ACCESSIBLE FERTILIZERS BASED ONBIOSOLID AND NONBIOSOLID AS A BASIS FOR PEAS

© AVERCAN CHEVICAL SOCIETY).



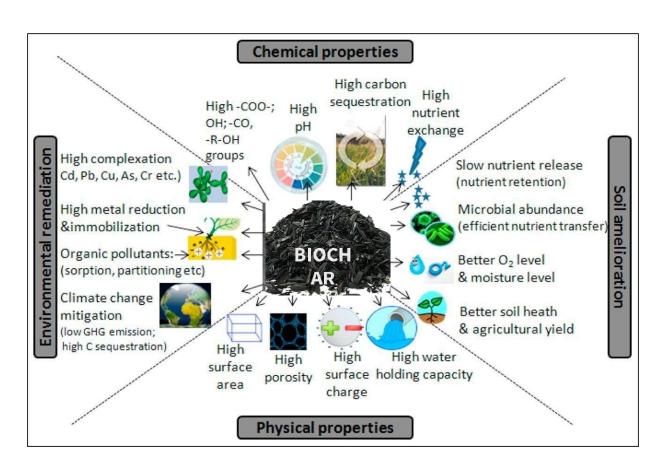
ribution of commercially accessible fertilizers based on biosolid and non-biosolid as a basis for PFAS [24] (Reprinted with permission from sciety).

HIGHTEVPERATURE PYROLYSIS SYSTEM FOR PFAS DESTRUCTION IN BIOSOLIDS AND GENERATION OF VALUE-ADDED PRODUCTS.

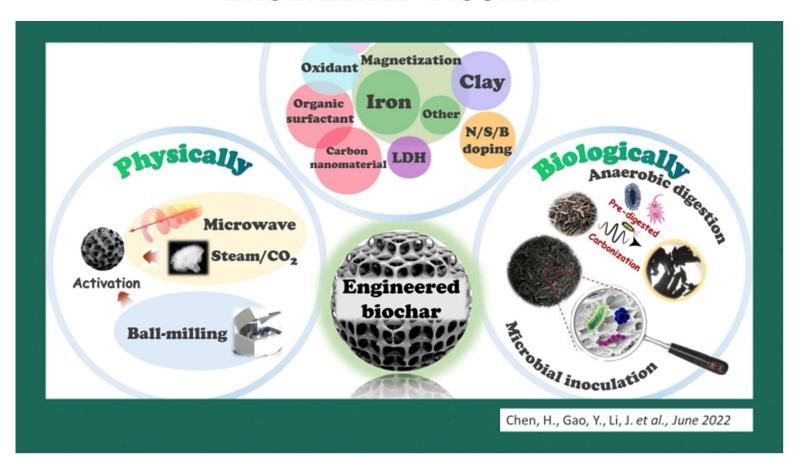


Anushka Garg, Nagaraj P. Shetti, Soumen Basu, Mallikarjuna N. Nadagouda, Tejraj M. Aminabhavi, Treatment technologies for removal of per- and polyfluoroalkyl substances (PFAS) in biosolids, Chemical Engineering Journal, Volume 453, Part 2, 2023,

BIOCHAR HAS EXCELLENT ADSORPTION PROPERTIES FOR TOXIC SUBSTANCES.



ENGINEERED BIOCHAR







ECOCHAR TOXICS ADSORPTION EFFICIENCIES Heavy Metals & PFAS



Manure-based biochars have removed 98.6-100% of PFAS, in addition to heavy metals.