Direct L	Determination of Phosphate Sp	pecies in Alum-Amen	nded Poultry Litter.
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PHOSPHATE			ALUM
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States to soils the to improve as such as poultry directly aluminualuminualuminus.	today. Decades of intensive pat contribute large amounts of ove environmental quality is to alum (aluminum sulfate). It litter, but the mechanism has determine the speciation of pum-phosphate solid phases we	coultry litter application of phosphate to the work of lower water-soluble has been proven that is never been fully ad hosphate in poultry live observed in the sa	of the largest environmental issues in the eastern United tion to sandy, low-lying soils in the Delmarva region has led watershed in both runoff and leaching. One possible solution le phosphate levels in poultry litter with wastewater coagulat addition of alum lowers water-soluble P levels dramatically ddressed. We used XANES spectroscopy at the P k edge to litter samples with varying amounts of alum amendment. Samples, and instead adsorption of phosphate to amorphous. This has important implications for the long-term stability

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