



LAND APPLICATION PROGRAM UPDATE

IWEA Residuals & Biosolids
Committee

March 16, 2011



VIRTUAL FILE CABINET

- Virtual file cabinet (VFC) is an electronic file system
- Paper files are scanned and indexed
- The agency is moving forward to get all public files in VFC
- All land application back files are in VFC



VFC continued

- LA Permits and their corresponding permit application are scanned as one document
- All LA reports prior to 2009 were scanned by year
- All LA reports 2009 to current are scanned individually by month
- Current files are being scanned as they are deemed complete



VFC continued

- Everyone has access to VFC
- It can be found on IDEM's website at <http://www.in.gov/idem/> then select virtual file cabinet on the right hand side of the screen in the green box
- Advance search allows searching by facility name or permit number



LAND APPLICATION RULE

- 327 IAC 6.1 was opened for changes in 2007
- A list of 19 items was identified for possible changes
- The handout has the complete list
- Discussion of a few major items



LA Rule continued

- Change marketing & distribution reporting to monthly
- Develop standards for processing facilities
 - Does not apply to waste processed at the point of generation, such as composting at a WWTP
 - Includes composting and mechanical treatment
 - Only includes those that will dispose under a land application or marketing and distribution program



LA Rule continued

- Proposes phosphorus (“P”) limits based on soil “P” concentration
 - If soil “P” is <150 ppm - no restriction
 - If soil “P” is between 150-200 ppm, one more land application season (applying crop rate by one or more applications)
 - If soil “P” is 200 or greater land application is prohibited



LA Rule continued

- Add new section for the use of materials generated under the new processing section
 - Creating 2 categories of solid waste
 - Category 1 – waste paper, manure, food waste, gypsum, water treatment lime, and animal bedding
 - Category 2 – paper waste, biosolids, coal combustion byproduct waste, and food processing waste
 - Category 1 waste have an alternate permitting option that is less restrictive



LA Rule continued

- Add new section for regional biosolid centers
- Add a new section for sampling methods for all parameters listed in 327 IAC 6.1
 - Holding times, appropriate preservation and sample container
 - New EPA methods for fecal coliform in both biosolids and pollutant-bearing water
 - New EPA method for Salmonella sampling



Land



Zinc –Total¹⁰	6 months at 4°C Plastic or Glass	Biosolids and Industrial Waste Products	No Maximum Detection Limit	Digestion¹⁰followed by:	
				AA direct aspiration ¹³	SM 3111 B or C ^{4,5} SW-846 Method 7000
				AA furnace	SW 846 Method 7010
				ICP/AES ¹³	SM 3120 B ^{4,5,6} SW-846 Method 6010
				ICP/MS	SW-846 Method 6020
				Colorimetric (Dithizone)	SM 3500–Zn E ^{4,5}
	(Zincon)	SM 3500–Zn F ^{4,5} SM 3500–Zn B ⁶			
	6 months HNO ₃ to pH<2, or at least 24 hours prior to analysis ²⁸ Polyethylene, Fluoropolymer, or Glass	Pollutant-Bearing Water	N/A	Digestion¹⁰followed by:	
				AA direct aspiration ¹³	SM 3111 B or C ^{4,5}
				AA furnace	EPA 289.2 ¹¹ (Issued 1978)
				ICP/AES ¹³	EPA 200.7, Rev. 4.4 (1994) SM 3120 B ^{4,5,6}
				ICP/MS	EPA 200.8, Rev. 5.4 (1994)
Colorimetric (Dithizone)				SM 3500–Zn E ^{4,5}	
(Zincon)	SM 3500–Zn F ^{4,5} SM 3500–Zn B ⁶				

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Land



Any Questions