

# SWANA/KDHE Solid Waste Management Conference and Operator Training Course

November 19, 2014

## Solid Waste Update

by

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Bureau of Waste Management



*Our Mission: To protect and improve the health and environment of all Kansans.*

# Recognition is Due

- Operators and Managers of
  - Landfills
  - Transfer Stations
  - HHW Facilities
  - Compost Facilities
- Waste Collectors and Transporters
- Consultants



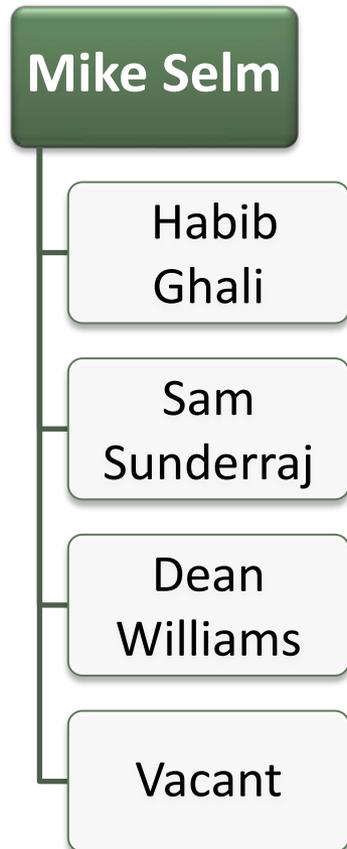
**Just like mail carriers, management of solid waste must go on NO MATTER WHAT!**

# Today

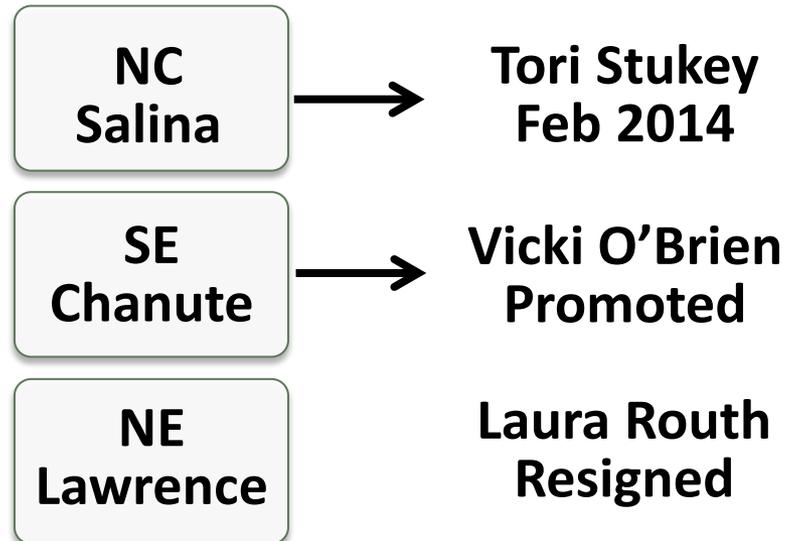
- KDHE staff changes
- Ebola waste management
- Disposal and recycling trends
- New compliance and enforcement procedures
- Statutory initiatives
- New DWOP guidelines
- Federal issues affecting Kansas
- Operational issues
- State SW Plan update

# Solid Waste Staffing Changes

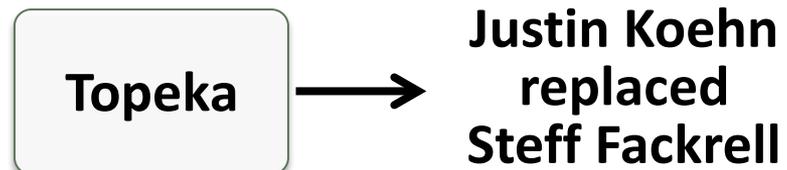
## LF Permit Unit Unit Chief



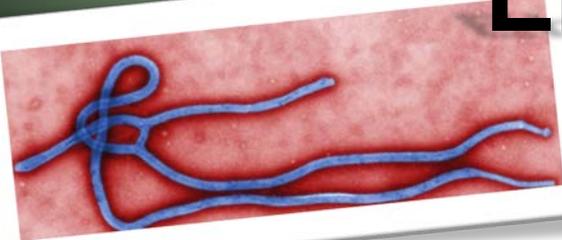
## Inspector Staff



## BWM Compliance Staff



# Ebola Waste Management



## Main Points

1. Not traditional 'medical waste'
2. Not a special waste
3. Cannot be managed at permitted solid waste facility

## Classification

Category A Infectious Waste

Kansas RCRA Hazardous Waste

Public Perception Driving Stringent Guidelines

# KDHE Ebola Team & Webpage

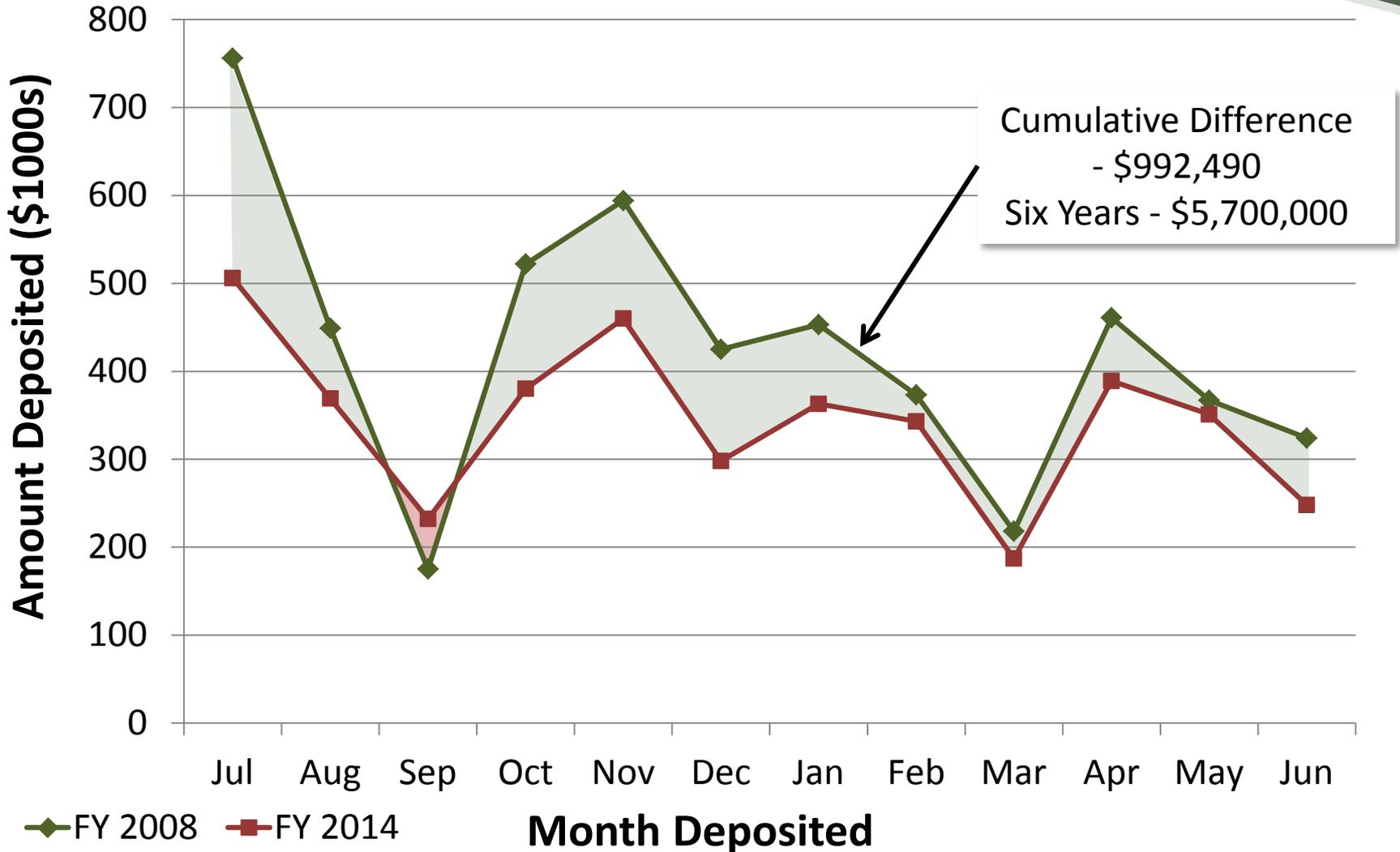
- Comprehensive Ebola Preparedness Plan
- Waste Management Issues
  - On-site autoclaving preference
  - Autoclaving converts to RMW
  - Special US DOT permits
  - Inner packaging/Outer packaging
  - Disinfectants
  - Bulky items
  - Storage
  - Transportation and disposal



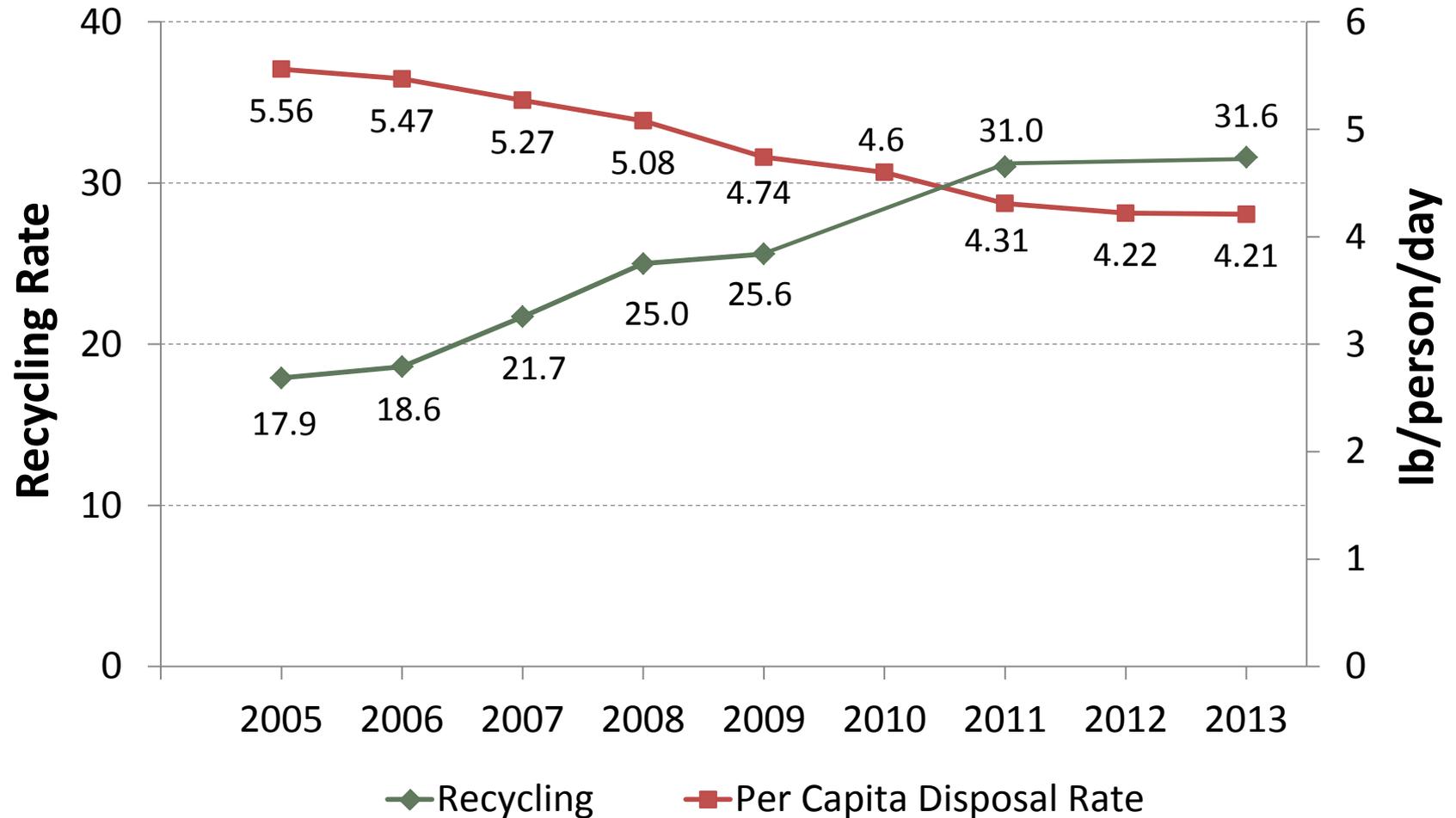
# Solid Waste Disposal Trend

## FY 2008 and FY 2014

(Waste subject to \$1/ton tonnage fee)



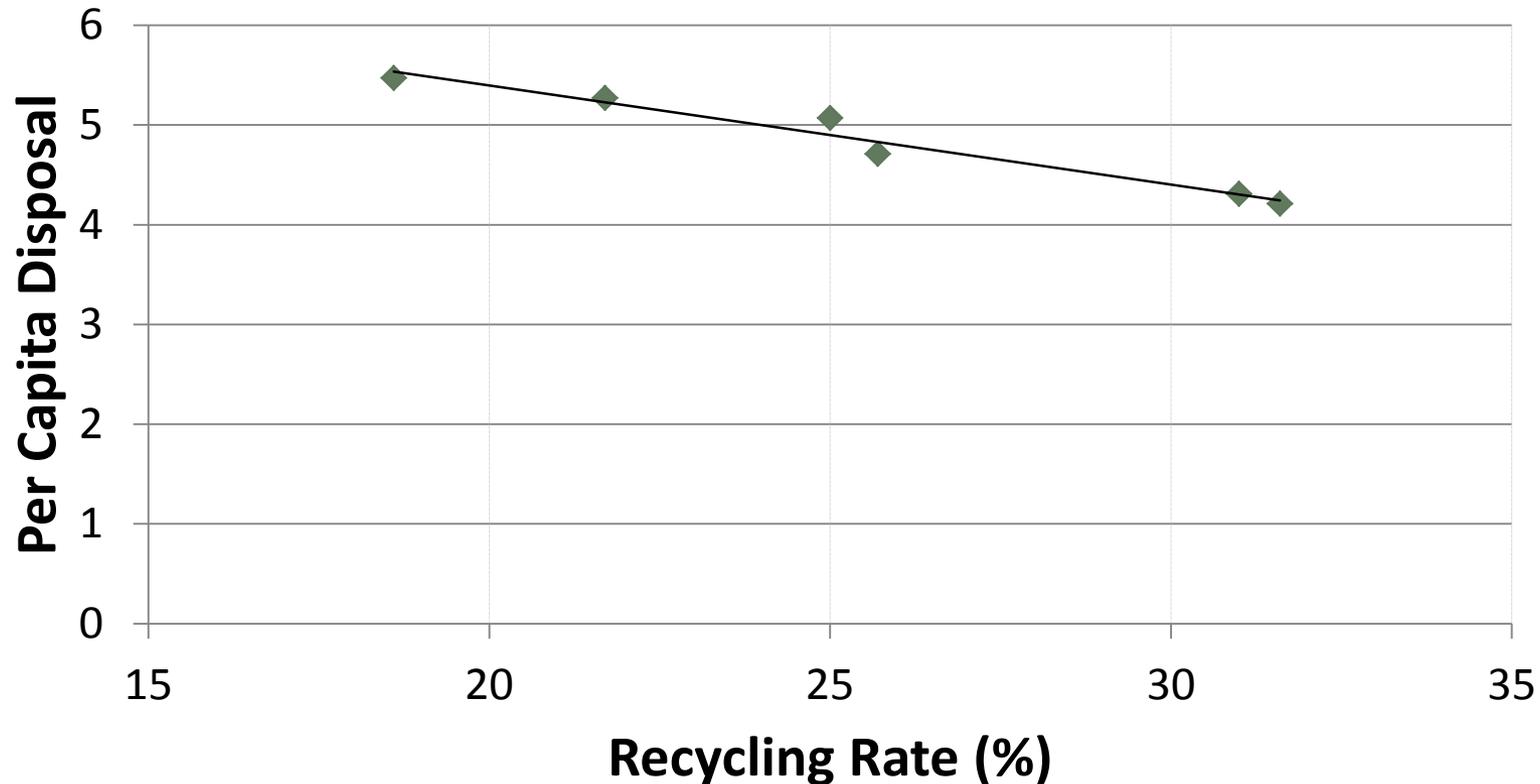
# Kansas MSW Recycling Rate and Per Capita Disposal Rate



# Recycling Survey Curtailed

Per Capita Disposal is Excellent Predictor of Recycling Rate

(2006 to 2013 data)



Formula = (Correlation coefficient = -0.989)

Recycling Rate =  $.722 - (.096 \times \text{Per capita Rate})$

Example =  $.722 - (.096 \times 4.0) = 33.8\%$

# New Solid Waste Compliance & Enforcement Protocols

## Inspector Flexibility and Guidance

- Training
- New Policy – not finalized
- Minor non-compliance may be classified as deficiencies – not recorded in C&E database

## Issues/Considerations

- Extent of deviation from standard?
- Did environmental impact occur?
- Is deficiency repeated?

# Inspector Comments for Non-Compliance Caused by . . .

- Extreme weather events
- Malfunctioning or broken-down equipment
- Lost personnel/capabilities
- Construction projects
- Other events beyond control of owner/operators

# Statutory Initiatives

**2014**

## **HB 2549**

On-site burial of hazardous waste generated by remediation project

## **HB 2551**

- Change recycling code on plastic bottles to conform to national change
- Revoke PCB statutes
- Enhance prohibition on local government to set disposal restrictions unless they own landfill

# Statutory Initiatives

## 2015

- Eliminate drilling waste land-spreading sunset provision
- SW Fund revenue enhancement unlikely
- Allow NORM disposal in MSW SubD LFs

# New Disposal Without a Permit Guidance

Inspector Arrives to

**This**



**This**



*or*

and no DWOP application submitted to KDHE

# Federal Issues

- Coal combustion residuals disposal
  - Rule due out in December 2014
  - Subtitle D regulation anticipated
- Definition of solid waste
  - Addresses recycling
  - Affects hazardous waste, waste tires, CRTs, etc.
  - KDHE not prepared to adopt
- Sustainable materials management
  - Food waste challenge
  - Kansas doing better (much room to improve)

# New Operational Issues

- Notify KDHE when emergencies, upsets, equipment failures, etc.
- Leachate accumulation on liner – operating plan amendments
- Erosion on intermediate cover
- Leachate storage capacity (5 days)

# State Solid Waste Plan

- Time to update 2010 Plan
- Plan will be updated in 2015
- KDHE looking to simplify – limit plan to special needs, goals, and strategies
- Stakeholder feedback will be sought

# Reflection – Solid Waste Challenges in Kansas Then and Now

## 1993

Regionalization  
Closing Facilities  
Groundwater  
Contamination  
Lack of Recycling  
Trained Staff  
Old Dumps  
Tire Piles

## 2014

LF Gas Mgt  
Curbside Recycling  
Yard Waste Mgt  
NORM Disposal  
Medical Waste Mgt  
Qualified Staff

# Questions?



[www.kdheks.gov/waste](http://www.kdheks.gov/waste)