



Solid Waste Disposal and Conversion Task Force

COMPENDIUM FOR  
ADDRESSING

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LANDFILL ODORS  
PROJECT PROGRESS

# PURPOSE

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- Provide regulators a resource with options for mitigating landfill odors
  - Technical discussion of factors in landfill odor generation
  - Various options and benefits
  - Case studies of individual and combined options

# PROCESS

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- Technical Outline
  - Sections divided among Task Force
- State Survey
  - Regulations
  - Examples

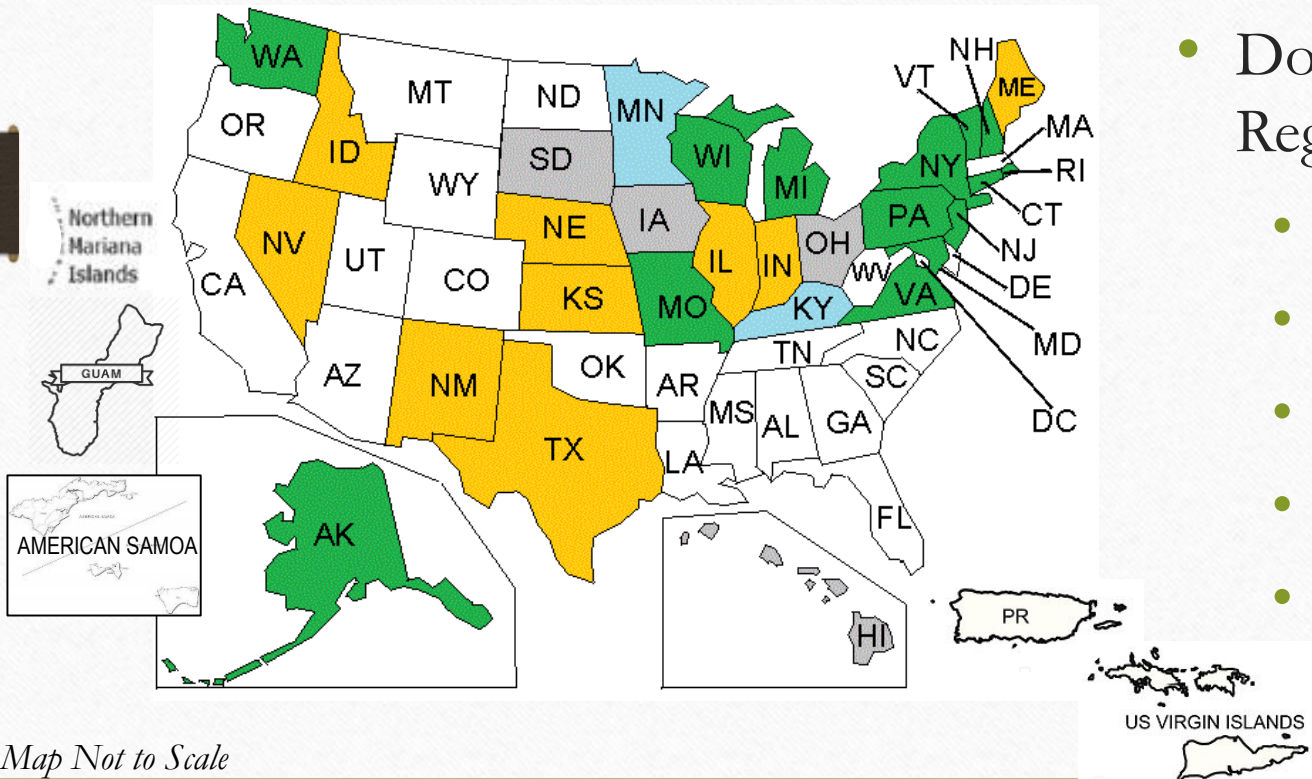
# PROGRESS

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- Outline Complete
- State Survey
  - 29 States responded
  - Follow up for additional States
  - Follow up on examples to use as case studies

# SURVEY RESULTS

- Does your State have LF Odor Regulatory Requirements?
  - Green = Air & SW Regs
  - Yellow = SW Regs Only
  - Blue = Air Regs Only
  - Gray = None
  - White = No response

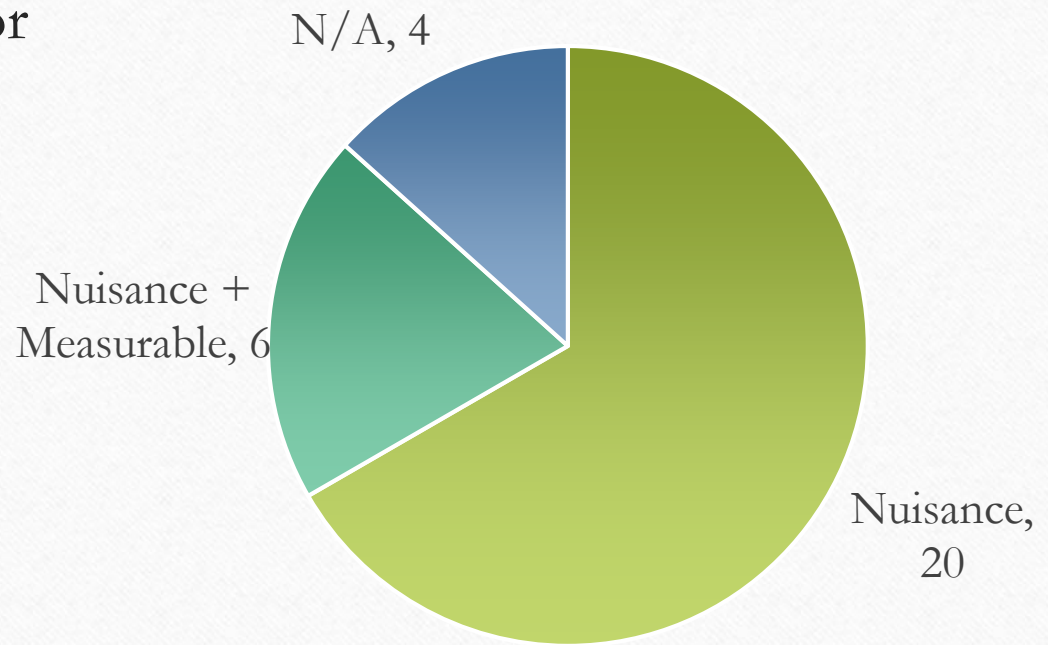


Map Not to Scale

# SURVEY RESULTS

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- Are requirements nuisance-based or something more specific / measurable?



# SURVEY RESULTS

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## 40 CFR 258.21 Cover Material Requirements

(a) ... the owners or operators of all MSWLF units must cover disposed solid waste with six inches of earthen material at the end of each operating day, or at more frequent intervals if necessary, to control disease vectors, fires, odors, blowing litter, and scavenging.

# SURVEY RESULTS

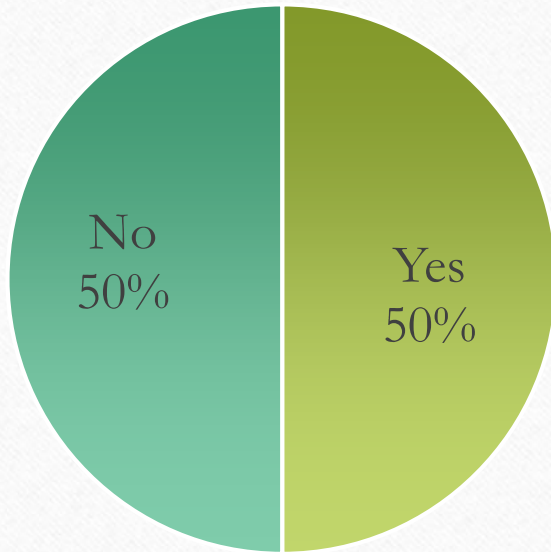
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- Odors and vectors shall be effectively controlled so they do not constitute nuisances or hazards
- A person may not engage in solid waste handling in a manner which will likely create a nuisance
- No person shall cause or permit the emission of any substance or combination of substances which creates or contributes to an odor, in the ambient air, that constitutes a nuisance.
- The owner and operator shall control nuisances, including but not limited to ... odor. The facility shall be operated to control malodorous gases;
- Plans required to address methods for odor control



# SURVEY RESULTS

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- Nuisance defined:
  - ... unreasonably interferes with an individual's or the public's comfort, convenience or enjoyment
  - ... anything that is injurious to human health or is indecent or offensive to the senses
  - ... an act or an omission of an act which annoys, injures, or endangers the comfort, health, or safety of others, offends decency, or unlawfully interferes with, obstructs or tends to obstruct, any public park, square, street, or highway; or in any way renders other persons insecure in life, or in the use of property.

# SUCCESSFUL CASE STUDIES

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- Combination of Solutions
  - Immediate burial of odorous wastes
  - Daily cover application
  - More robust intermediate cover or final cover installation
  - Installation / expansion of GCCS
  - Odor neutralizing spray systems

# YOU'VE PROBABLY GOT AN ODOR PROBLEM IF...

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- Close proximity to neighbors / encroaching development
- Poor landfill operations
- Delays in capital improvements
- Difficulty identifying specific odor source/contaminants
- Relying solely on odor masking agents

# PATH FORWARD

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- Tabulate final survey results
- Write technical sections
- Select case studies
- Publish – Draft for review November 2019  
Final by the end of the year,

# QUESTIONS

# & THANKS

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## **Solid Waste Conversion and Disposal Task Force**

Kathyrn Perszyk 3 – Chair      Lori Aldrich 10 – Vice Chair

Dennis Fekert 1

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Former Members:

And of course, Kerry Callahan, and Kathy Jamieson