Nuisance Control & Health Issues

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What is a Nuisance?

- “A person, thing, or situation that is annoying or that causes trouble or problems”
  - harm, injury
  - one that is annoying, unpleasant, or obnoxious: pest
  - Merriam-Webster
Nuisance at the Landfill?

- Noise
  - Traffic
  - Heavy Equipment Operation
- Odor
- Visual impacts
  - Dust
  - Mud Tracking
  - Litter Control
- Animals
  - Insects
  - Rodents
Noise

- **Buffer zones**
- **Physical barriers**
  - *Trees, berms, etc.*
Odor Nuisance - Causes

1. Lack of effective gas control
   - Improper design, construction maintenance of gas collection system

2. Lack of soil cover
   - Use of ADC

3. Area of working face

4. Odorous waste streams
   - Mortality, industrial food waste biosolids
Odor Control

- Effective landfill gas collection system
- Proper daily cover
- Spot misters
- Odor curtains
Dust

- Spraying water
- Surfactants
- Paving
- Wind breaks
Mud Tracking

- Hard surface well drained long run off road
  - Maintain after each rain event
- Tire wash
  - Maintain after each rain event
- Do not track mud off site
Litter

- Prevent wind blown litter
- Contain as close to working face as possible
  - 3 layers of protection
- Collect wind blown litter daily

Photo courtesy of The Alamedan. Photo by Rebecca Jewell.
Vectors

- Insects
  - Cover waste and recycling areas
- Rodents
  - Eliminate food and shelter
  - Traps and bait
- Birds
Bird Attraction

- Landfill is a source of water and food
  - Sedimentation ponds
  - Wetland habitats
- Bird sanctuaries
- Large open areas
- Working face
Abatement has to be proactive
Effective Bird Control

- Disruption of patterns
- Removal of attractants
- Hazing
  - Propane cannons
  - Baiting
  - Pyrotechnics
  - Flash tape
- Dogs
- Hawks and Falcons
- Drones
Health Concerns

- Landfill Gas
  - Explosion Hazards
  - Asphyxiation Hazards
  - Odor
- Ambient air quality evaluation indicates no health concerns on the active face
Vector Control

- *Birds can carry over 60 diseases transmittable to humans*
- *50 kinds of ectoparasites*
  - *Medical News Today, September 2014*
- *Transmitted through*
  - *Food & water contamination*
  - *Inhalation of fecal dust*
  - *Direct contact with bird feces*
Conclusion

• *Public perception directly impacts “nuisance” conditions*
• *Do your part to be a good neighbor*