

## Solid Waste Issues at Maintenance Yards

Ohio EPA, Division of Solid and Infectious Waste Management

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## Typical Solid Waste Issues Faced

- ◆ Waste Characterization
  - Leachate management
- ◆ Open Dumping of Wastes
- ◆ Clean Hard Fill Use
- ◆ Scrap Tire Management
- ◆ Animal Carcass Management
- ◆ Composting
- ◆ Old Disposal Site Development



## Waste Characterization

- ◆ Hazardous Waste (OAC 3745-51)
  - Paint Chips, Solvents, Oils, etc.
- ◆ TSCA Wastes (40 CFR 761)
  - Asbestos Wastes (NESHAP) - DAPC
  - Polychlorinated Biphenyls (PCBs)
- ◆ Solid Waste (OAC 3745-27-01(S)(24))
- ◆ Infectious Waste (OAC 3745-27-01(I)(6))
- ◆ Construction and Demolition Debris (OAC 3745-400-01(F))
  - Must be recognizable as C&DD
- ◆ Clean Hard Fill (OAC 3745-400-01(E))



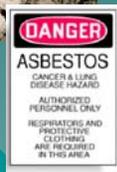
## TSCA Regulated Wastes

- ◆ Polychlorinated Biphenyls (PCBs)
  - Contact U.S. EPA Region V
- ◆ Regulated Asbestos Containing Wastes (RACM)
  - Automotive Repair Wastes
  - Nonresidential Building Demolition
  - C&DD Wastes (except homes)
  - Asbestos Cement Pipe: Water mains and sewers if friable
  - Solid Waste LFs licensed to accept ACM



## Asbestos Waste Issues

- ◆ Contractor must be Certified by Ohio Department of Health if Regulated ACM
  - Contact DAPC or Air Local: Friable vs. Nonfriable ACM
  - Disposal must be to a landfill licensed to accept Asbestos Materials
  - See Ohio EPA Website: [http://www.epa.state.oh.us/dapc/atu/asbestos/asb\\_land.html](http://www.epa.state.oh.us/dapc/atu/asbestos/asb_land.html)



## Illegal Disposal / Open Dumping

- ◆ Open Dumping of Solid Wastes
  - OAC 3745-27-01(O)(4)
- ◆ Illegal Disposal (Open Dumping) of Construction and Demolition Debris
  - OAC 3745-400-04(B)
- ◆ Misuse of Clean Hard Fill
  - OAC 3745-400-05



## Clean Hard Fill Use

- ◆ Defined by OAC 3745-400-01(E)
- ◆ Disposal Methods: OAC 3745-400-05(A)
  - Recycled into Construction Material
  - Licensed C&DD Facility
  - On-Site & Off-Site Legitimate Fill Operations
- ◆ Storage Less than 2 years
  - Retrievable and Substantially Unchanged
- ◆ Notice of Intent to Fill (NOI)
  - Required by OAC 3745-400-05(C)
  - At least 7 days prior to filling
  - New NOI if changes required by Rule in Notification



## Solid Waste Management

- ◆ Solid Waste Defined by OAC 3745-27-01(S)(24)
  - After determine nonhazardous
  - Street Sweepings
  - Office Refuse
  - Water Treatment Plant Sludge
  - Any Water in Contact with C&DD or solid waste is Leachate by definition



## Infectious Waste

- ◆ Defined by OAC 3745-27-01(I)(6)
  - Refer to Guidance Doc 0067
- ◆ Contacting Infectious Waste
  - Sanitary Sewers (DSIWM 0105)
  - Accident Scenes (DSIWM 0493)
  - Roadside Dumping (DSIWM 0462)
- ◆ Registered Transporter for Off-Site Disposal
  - Transporter List on the Web: [http://www.epa.state.oh.us/dsiwm/document/facility\\_lists/reg\\_iwt\\_by\\_name.pdf](http://www.epa.state.oh.us/dsiwm/document/facility_lists/reg_iwt_by_name.pdf)
  - Treatment at licensed treatment facility



## Scrap Tire Management

- ◆ Scrap Tire Transporters
  - OAC 3745-27-54 through 59
- ◆ Scrap Tire Storage Sites
  - OAC 3745-27-60 through 65
- ◆ Township/Municipality Exemptions
  - Must still comply with rule requirements



## Scrap Tire Transporters 1/2

- ◆ Registration required >10 tires/load
  - Central Office Contact Bob Large: 614-644-2621
  - District Office Contact Jarnal Singh: 330-963-1276
  - Transporter List On Web at: [http://www.epa.state.oh.us/dsiwm/document/facility\\_lists/scrap\\_tire\\_transporters.pdf](http://www.epa.state.oh.us/dsiwm/document/facility_lists/scrap_tire_transporters.pdf)



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## Scrap Tire Transporters 2/2

- ◆ Township and Municipal Exemptions
  - OAC 3745-27-54(A)(a)(2)(e)
  - Roadside/public property cleanups
  - Community scrap tire collection events
- ◆ Cannot include commercial pickups
- ◆ Government vehicles or donated use of private vehicles only
  - Contracting out requires licensed transporter
- ◆ Must use scrap tire shipping papers (OAC 3745-27-57)



## Scrap Tire Storage 1/3

- ◆ Township/Municipality Exemptions
  - Must still comply with rule requirements
- ◆ Scrap Tire Storage Requirements
  - Exempt Facilities follow OAC 3745-27-60
  - Registered Facilities follow OAC 3745-27-65
- ◆ Contact DSIWM NEDO regarding registration requirements if needed



## Scrap Tire Storage 2/3

- ◆ Township & Municipal Exemptions
  - OAC 3745-27-61
  - Roadside/public property cleanups
  - Community scrap tire collection events
  - >100 tires from Maintenance
  - Maximum on-site storage 30 days if multi-day collection
- ◆ Mosquito Control
  - Same day off-site transport preferred
  - On-Site Dry Storage (under roof)
  - Outside Storage requires insecticide/larvacide spraying



## Scrap Tire Storage 3/3

- ◆ Unregistered Site Requirements
  - Prescribed by OAC 3745-27-60
  - No pile greater than 50' by 50'
  - 50' Setback from any Ignition Sources
  - Apply Mosquito Control
  - Tires leaving must be via registered transporter, with disposal at an approved collection/storage/recovery site
- ◆ For registration process, contact DSIWM NEDO
  - Jarnal Singh 330-963-1276



## Animal Carcass Management 1/2

- ◆ Licensed Solid Waste Landfill
  - Most common disposal method
  - Must be Noninfectious
- ◆ Class II Composting Facility
  - Specific Animals and Requirements
  - Some Operations regulated by ODNR
  - DSIWM Guidance Document 0494
  - DSIWM Guidance Document 0667



## What not to do...



## Animal Carcass Management 2/2

- ◆ Class II Compost Facility Option
  - Requires DSIWM Approval
  - Animals Free of Infectious Diseases
  - Specific Bulking Agents
  - Specific Animals
  - List of Testing Requirements
  - Contact Jarnal Singh 330-963-1276



## And Speaking of Composting....

## Compost Site Classifications

- ◆ Class I Compost Site
  - Composting solid waste
  - Permit and license.
- ◆ Class II Compost Site
  - Composting animal carcasses
  - Registration, plan and license
- ◆ Class III Compost Site
  - Composting sites under 3 ac
  - Yard waste and animal waste.
  - Registration and plans.
- ◆ Class IV Compost Site
  - Composting leaves, small brush (>4")
  - Registration only.

## General Compost Considerations

- ◆ Animal Composting
  - Class II Registration Required
  - Animal and bulk agent specific
- ◆ Leaves, Grass, and Small Branches (<4")
  - Class IV Registration Required
  - Required for any Off-site Consolidation (multiple sites)

## General Compost Considerations

- ◆ Exempt from registration if on same property as generated
  - Composting waste from multiple locations requires registration.
- ◆ All Compost Operations Must Consider
  - Surface Water Management
    - ◆ John Kwolek 330-963-1251
  - Air Emissions
    - ◆ Joe Loucek 330-963-1258



## Composting Leaves and Brush

- ◆ Class IV Compost Facility
  - Registration only through Central Office 30 days prior to commencement
  - Often Requires DSW DAPC Permits
  - Source Separated Yard Waste Only: No Industrial or Agricultural Wastes
  - See Guidance Document 0663
  - Specific Bulking Agents Only: No CCA / treated wood
  - Surface Water and Leachate Management common issues



*Over an old landfill ?...*

## Many sites are...



## Things to consider...

- ◆ Authorization required by OAC 3745-27-13, above and beyond other requirements
- ◆ Often Compost Sites, Maintenance Yards, and Service Garages and other public spaces are constructed over old Dumps



## Old Disposal Site Development

- ◆ Many activities are pre-1988, but any changes require Additional Authorization
- ◆ When in Doubt contact your District Office and Health Department

**Any Questions?**