Best Management Practices: Water Quality

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1,200,000 Tons Diverted Since 1993
To Feed the Soils of Sonoma County
The Numbers

- 90,000 Tons per Year
- 235 Tons/Day Yard Debris ($34.10/Ton)
- 15 Tons/Day Wood ($27.60/Ton)
- Vegetal Food Discards in Green Can
- 2% Food Discards Incorporated
- 4% Yard Debris Remaining in Waste Stream
- 21.4% Food Discards Remaining in waste: 80,000 Tons ($101.50/Ton)
- 24 Acre Compost/Processing Site (incl. ponds)
Materials Accepted

- Yard debris
- Wood Scraps
- Vegetative Food Scraps
- Agricultural Byproducts
- Meat, Bones, Dairy <10%
Feedstock/Additives

- Chicken Feathers
- Yard Debris
- Rice Hulls
- Grape Pomace
- Olive Pressing
Site Overview
Site Surface          Drainage Ditch
Sediment Trap
Sediment After Storm
Second Trap
Primary Pond
Secondary Pond

To Tertiary Pond, To Stemple Creek
Compost Water Requirements

- Active: 40-60% Moisture
- Curing: 30-40% Moisture
- Starting Moisture: Obtain Optimum
- Maintenance Water
- Water Management
Moisture Addition

No Water Is Added During the Rainy Season
Moisture Addition on Windrows:
Dry Season
Winter Shape
Turning the Windrows
2 Days Before or After Rain Event
Screening

Keep Pad Clean
Yes, We Sweep
Alternatives

• Aerated Static Piles (ASP)
• Anaerobic Digestion
• Conversion Technologies
• Incineration
• Enclosed Facilities
• Landfill/Alternative Daily Cover (ADC)
Aerated Static pile
Cedar Grove, Everett WA
Anaerobic Digestion

BioFerm
Conversion Technology

Australia
Incineration
Enclosed Facility
Santa Rosa, CA
Landfill/Alternative Daily Cover
Finished Products
The Market: **All Sold**

- SCC Retail Site
- Agriculture
- Landscape Industry
- Backyard Gardeners
- Soil Dealers
- Nurseries
- Parks and Recreation
- Schools
Compost Benefits

• Reduced Fertilizer Needs
• Immobilized Nutrients: Slow Release
• Reduced Pesticide Use
• Improved water holding capacity
• Increased Cation Exchange Capacity
• Improved Soil Structure
• Reduced Erosion
Closing Remarks

• Compost industry plays an important role in waste diversion, GHG reduction, water conservation, nutrient cycling, erosion control, etc.
• There is room for improvement in water management
• Regulation do not stand by themselves, there are other agencies: Keep the viability of the industry in mind
• Keep open dialogue, including dialogue between agencies: Integrated approach
• Look at the full picture including benefits