



# Connecticut Department of Energy and Environmental Protection



# Proper Management of Sewage Treatment Plant (STP) Screenings and Grit

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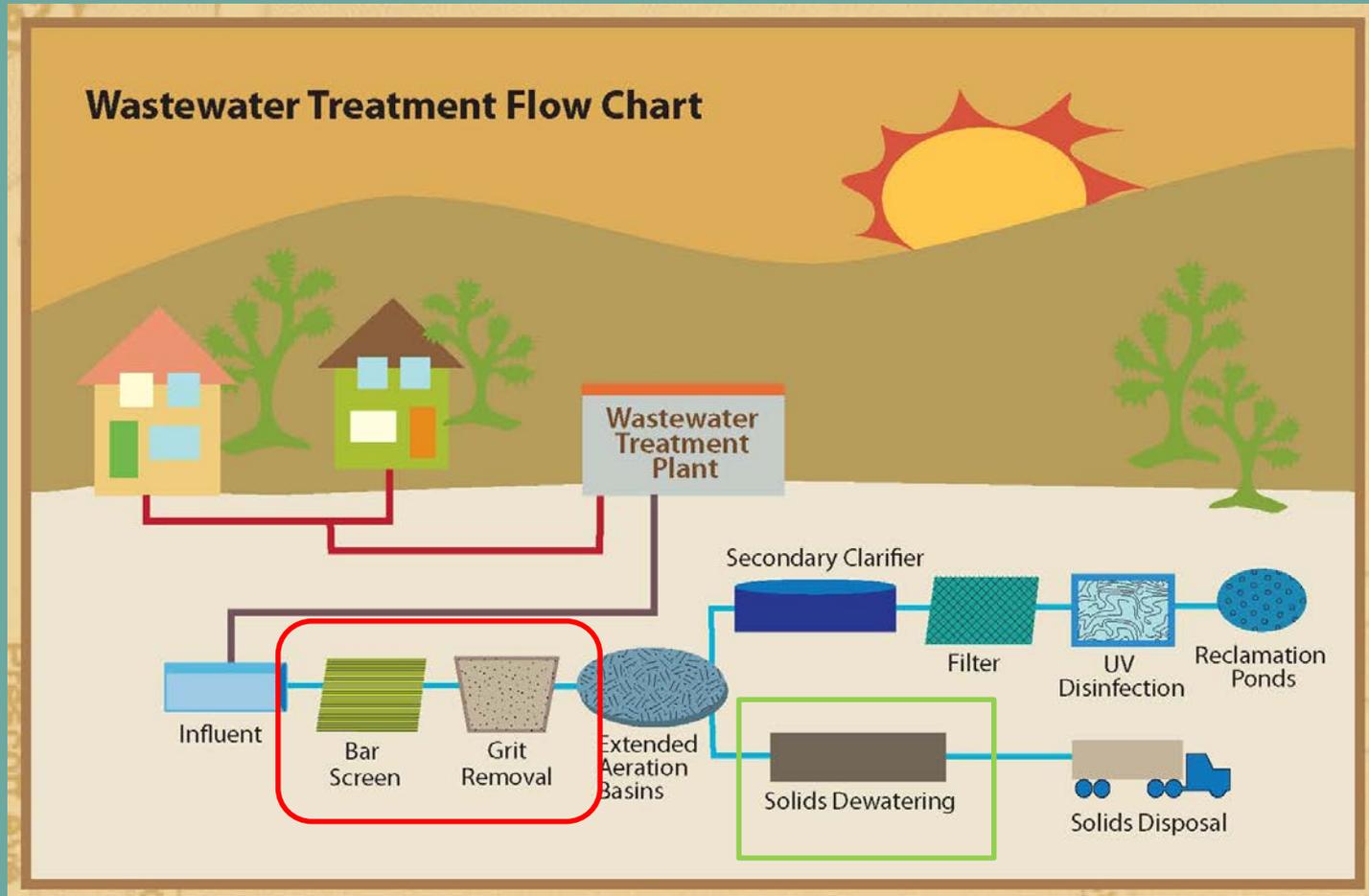
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Solid Waste Advisory Committee



Connecticut Department of Energy and Environmental Protection

# What are STP Screenings and Grit?



# Course Screens aka Bar Racks



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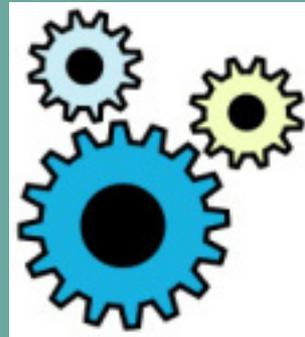
# STP Screenings

- **Typical Components:**
  - **Textiles**
  - **Plastics**
  - **Paper**
  - **Rocks**
  - **Wood**
  - **Organics**
  - **Other Rubbish**



# Grit Removal

- Grit – sand, silt, cinder, small gravel, coffee grounds, eggshells and other inert materials
- Grit is very abrasive to mechanical processing equipment and will cause excessive wear
- Grit will also accumulate in tanks, digesters and pipes causing down time for clean outs
- Aerated chambers, horizontal flow through basins, vortex removal and hydrocyclones



# Volumes of Screenings and Grit

- **Bridgeport, West Side (40 MGD) – 305 cy/week**  
– **Daily disposal**
- **Norfolk (0.35 MGD) – 0.012 cy/week**  
– **Yearly disposal (0.624 cy/year)**



# Management/Disposal

- Screenings and Grit are defined as 'Special Waste' by the Department
- Special Waste require special handling and disposal procedures based on its physical and chemical characteristics
- Permitted Solid Waste Landfills
  - **Manchester Landfill**



# Management/Disposal

- **Stockpiled at Sewage Treatment Plant**
- **Resources Recovery Facilities (RRF) –**
  - **directly transported to a permitted RRF and disposed as special waste; or**
  - **if it has been properly “washed, ground and dewatered”, may be accepted as municipal solid waste**



# Processing Screenings



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# Washing, Grinding & Dewatering



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# Possible Survey & Inspections

- Department may conduct a survey in the future to assess the current management of screenings, grit as well as sewage sludge
- Department may inspect facilities to determine compliance with State Statutes, Regulations and Permits



# Any Questions?



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