

December 16, 2010  
Agenda Item 4



**PUBLIC WORKS DEPARTMENT**  
**SOLID WASTE DIVISION**

Leonard Marion, Director

# Solid Waste Division



**Tomoka Farms Road Landfill**



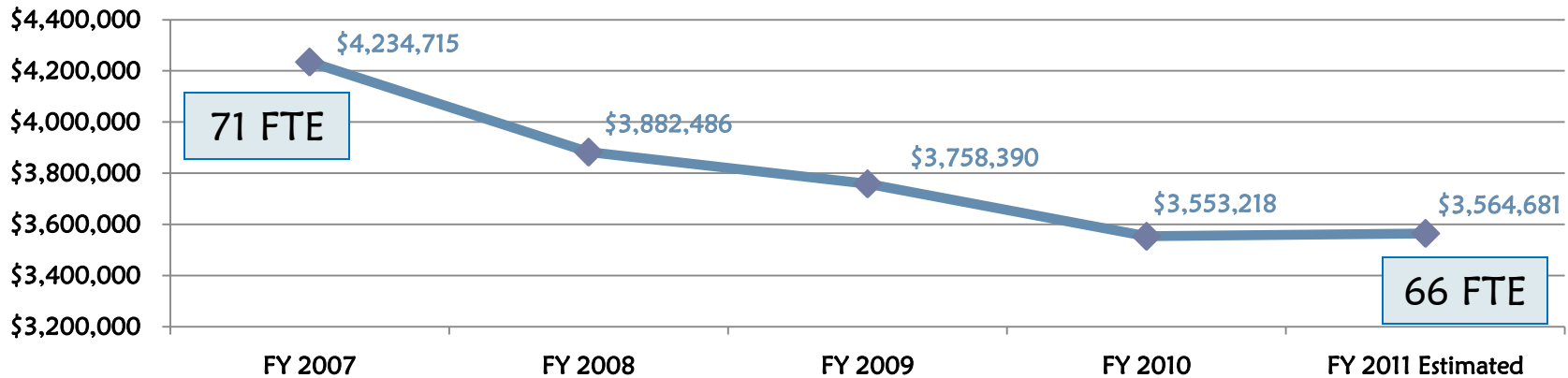
**West Volusia Transfer Station**



# Solid Waste Division Accomplishments

- ▶ Work schedule efficiencies – overtime reduction – 74 % since FY 2007
- ▶ Right sizing workforce proportionate to demand

Personnel costs



- ▶ Equipment efficiencies –\$3.3 million in savings through fleet right sizing, equipment re-life's & reduced fuel consumption

# CAT 836 Compactor



# Solid Waste Division Accomplishments

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- ▶ **“Green” Activities**
  - ▶ Vegetative recycling – alternate daily cover
  - ▶ Treated leachate – reuse for irrigation and dust control
  - ▶ Household Hazardous Waste recycling
  - ▶ Bio-solids recycling – Class AA fertilizer generation (public/private partnership)
  - ▶ Methane gas recovery – electricity generation (public/private partnership)
  - ▶ Material Recycling Facility – paper/glass/plastic recycling (public/private partnership)

# Solid Waste Division Initiatives

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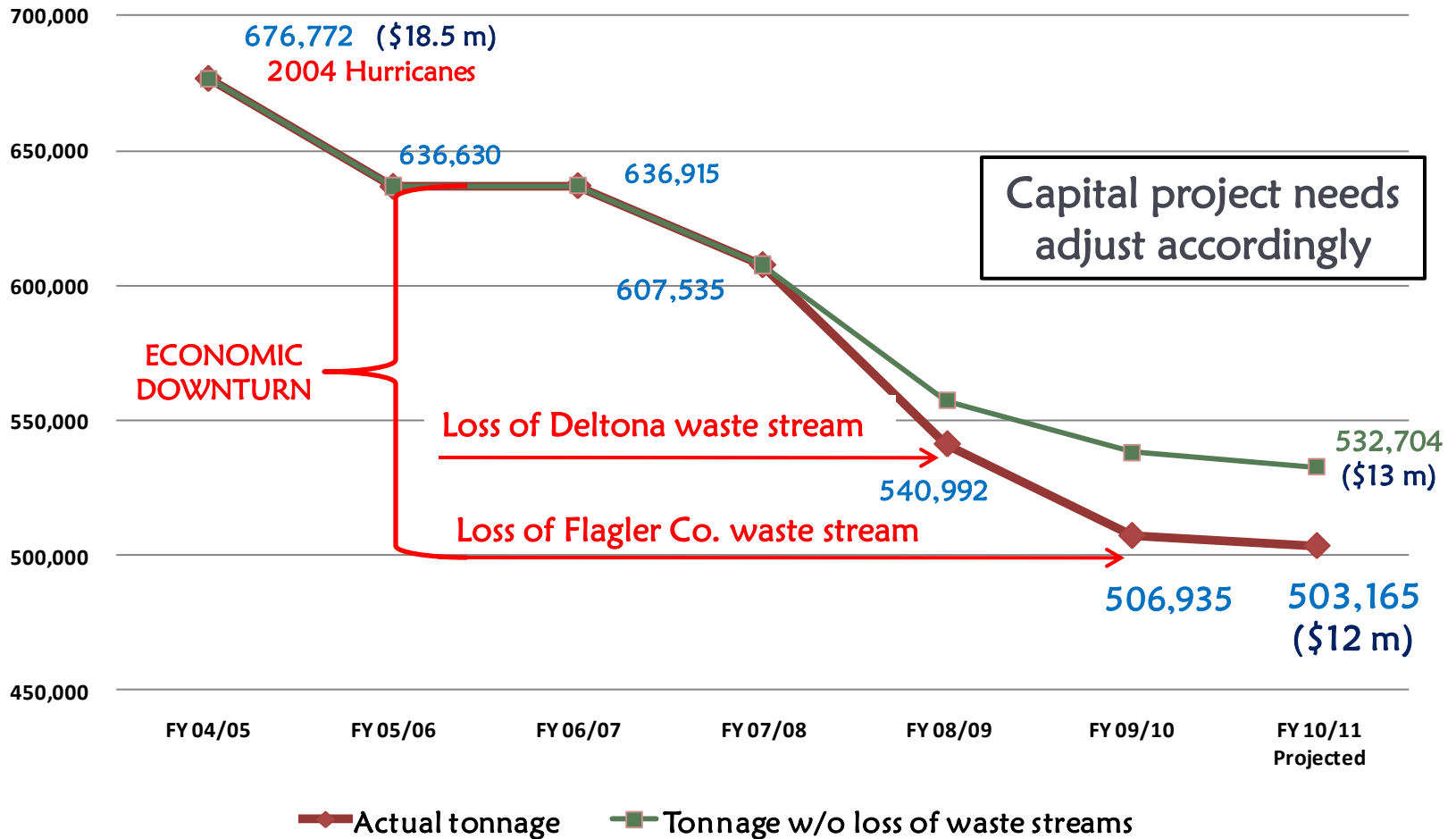
- ▶ Long term plan with Office of Sustainability
  - ▶ Opportunities
    - ▶ Increase recycling by implementing single-stream collection
    - ▶ Potential solar electricity generation facility at closed Plymouth Landfill
    - ▶ Methane Gas-to-Electricity Facility – evaluate future sustainable technologies at the TFRL site
    - ▶ Increase operational savings
      - ▶ Fuel savings through efficient driving practices
      - ▶ Hybrid vehicle use where feasible
      - ▶ Identify alternative fuels to supplement traditional fuel types
- ▶ Ten year master plan
  - ▶ Identified disposal capacity through 2048

# Solid Waste Division Future Challenges

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- ▶ **Capital improvement program**
  - ▶ Waste flow dependent
  
- ▶ **Operational efficiencies**
  - ▶ Weekend schedule adjustment
  - ▶ Continue heavy equipment rotation
  - ▶ Continue evaluating equipment re-builds vs. new purchases
  
- ▶ **Residential collections contract expires 12/31/2011**
  - ▶ Seven (7) year contract term valued at \$46M
  - ▶ Update ordinance by July 15, 2011
  
- ▶ **Recycling**

# Solid Waste Division – Total Tonnage History



# Solid Waste Division Recommendations

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- ▶ **Weekend schedule adjustment**
- ▶ **Update Solid Waste Ordinance**
- ▶ **75% Recycling Goal**
- ▶ **Develop commercial used/obsolete electronic recycling program**
- ▶ **Research exclusive commercial franchise agreements**

# Weekend Schedule Adjustment

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## ▶ Sunday Operations

- ▶ Annual tons **less than 1%** of total tons processed
- ▶ Operating cost/ton is **4x greater** than normal work week
  - ▶ Reasons
    - ▶ Limited tonnage
    - ▶ FDEP permit staffing requirements

## ▶ Recommendation:

- ▶ Close Tomoka Landfill on Sundays
- ▶ Extend Saturday operating hours to full day – 7:00 am – 5:30 pm to accommodate residents
- ▶ Semi-annual Sunday openings for residential clean-ups
- ▶ Implement April 1, 2011 after sixty day public notification

# Update Solid Waste Ordinance

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- ▶ **Proposed updates include:**
  - ▶ Ordinance definitions
  - ▶ Service levels
  - ▶ Holiday closures
  - ▶ Length of collection contract provision
- ▶ **Critical issue as current residential collection contract expires 12/31/2011**
  - ▶ \$46M dollar contract (est.)

# Develop electronics recycling program for commercial entities

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- ▶ **Currently used/obsolete electronics are only accepted from residents & recycled free of charge**
  - ▶ Current cost at \$192/ton
  - ▶ Subsidized by landfill tipping fees
- ▶ **Consider developing a used/obsolete electronics recycling program for commercial entities and drop-offs exceeding five units**
  - ▶ Expands current recycling efforts
  - ▶ Responds to vendors seeking the service
  - ▶ A tip fee will be charged to offset recycling costs

# Implement Statutory 75% Recycling Goal

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- ▶ **HB 7243 established a 75 % recycling goal by 2020**
  - ▶ Implemented incrementally over next ten years
  - ▶ Current recycling rate = 35%
  - ▶ Pursue recycling credit for additional items, i.e.
    - ▶ Landfill gas to energy
    - ▶ % of concrete & asphalt recycled
    - ▶ Ground yard waste used as landfill cover

# Research exclusive solid waste commercial collection franchises

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- ▶ Unincorporated areas only
- ▶ Limited recycling done by businesses
- ▶ Various service levels being provided
- ▶ **Benefits:**
  - ▶ Mandatory commercial recycling
  - ▶ Creates commercial waste collection zones
  - ▶ Competitively solicit collection services
  - ▶ Standardized services and consistency in collection
  - ▶ Provides rate schedule with annual CPI adjustments

# Items for Council Action

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## Approval:

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- Item 1. Implement weekend schedule adjustment at the Tomoka Farms Road Landfill

## Direction:

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- Item 2. Update Solid Waste Ordinance, Chapter 106
- Item 3. Develop /report commercial used/obsolete electronics recycling services
- Item 4. Research /report exclusive commercial franchise agreements

# Questions?

