

# Sustainability Management Systems

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# Sustainability

Meeting the needs of current generations without compromising the ability of future generations to meet their own needs.  
(Brundtland Report, 1987)

# Sustainable Development

. . . economic development, social development and environmental protection  
. . . (UN World Summit on Sustainable Development, 1995)

# Sustainability is Ethical Leadership

- Take a broad view of stakeholders, including future generations
- Take initiative to create collaboration and action
- Take a long-term view of success

# UTA's Sustainability Management System



- Balanced Mission, Goals
- ISO 14001 EMS
- Sustainable Design
- Community and Industry Involvement

# UTA Mission

- *Utah Transit Authority strengthens and connects communities thereby enabling individuals to pursue a fuller life with greater ease and convenience by leading through partnering, planning, and wise investment of physical, economic, and human resources.*

The image features a decorative graphic at the top left consisting of a blue circle and horizontal lines in red, white, and blue. To the right of this graphic is the UTA logo, which includes the letters 'UTA' and a stylized train icon. The background of the slide is a faded image of a city skyline with power lines.

# UTA Goals

- Increase public transportation connections and mobility across the Wasatch region.
- Support and contribute to the long term economic, environmental and social sustainability of the region through balanced transportation that encourages wise land use.
- Achieve long term viability of public transportation services by maintaining cost, revenue and environmental performance effectiveness
- Execute the major projects in the long range regional plans plus additional strategic projects in an efficient and timely manner.

# ISO 14001



- Management system standard
- Environmental risks
- Operational control
- Continuous improvement



# Environmental Risks (Aspects)

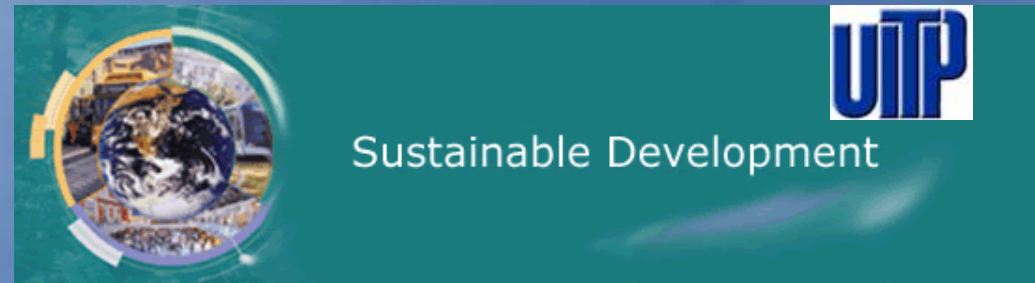
1. Printing (Employee Exposure & Disposal)
  2. Industrial Waste Water Treatment
  3. Used Oil Management
  4. Recycling Used Oil Filters
  5. Fuel Consumption & Excessive Idling
  6. Paint Related Waste: Aerosol Cans & Other Paint Products
  7. Energy Conservation
  8. Recycling
- 

# Sustainable Design



- Sustainable design guidelines for 2015 projects
- Applying LEED criteria to new light rail maintenance facility
- Land recycling

# Community & Industry Involvement





## ■ Air Quality

- CO<sub>2</sub>: 3.037 million lb/yr
- NO<sub>x</sub>: 91,125 lb/yr
- PM: 2484 lb/yr

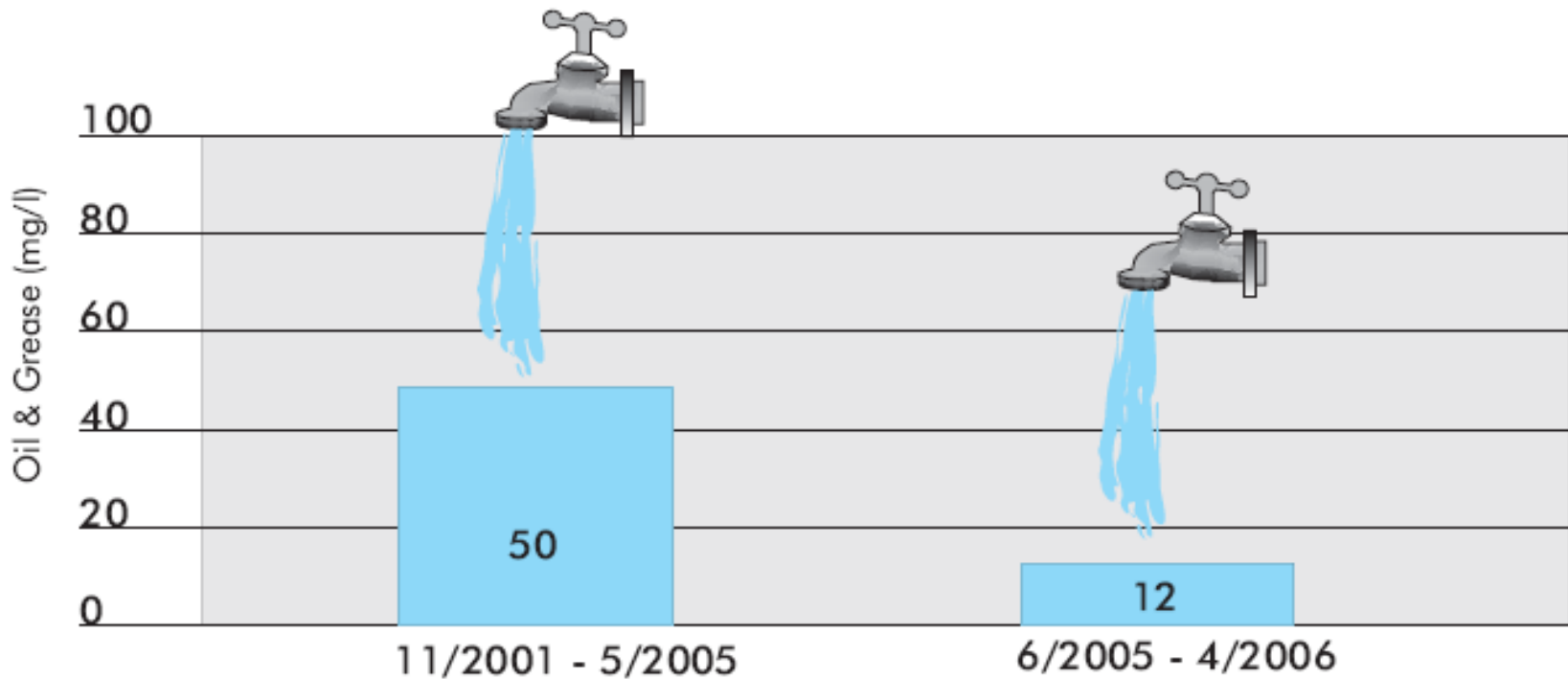
- Fuel: \$675,000.00
- Labor: \$63,000.00

2005-2006

Vehicle Idling and Emissions Savings

# Waste Water

## Wastewater Final Discharge Improvement

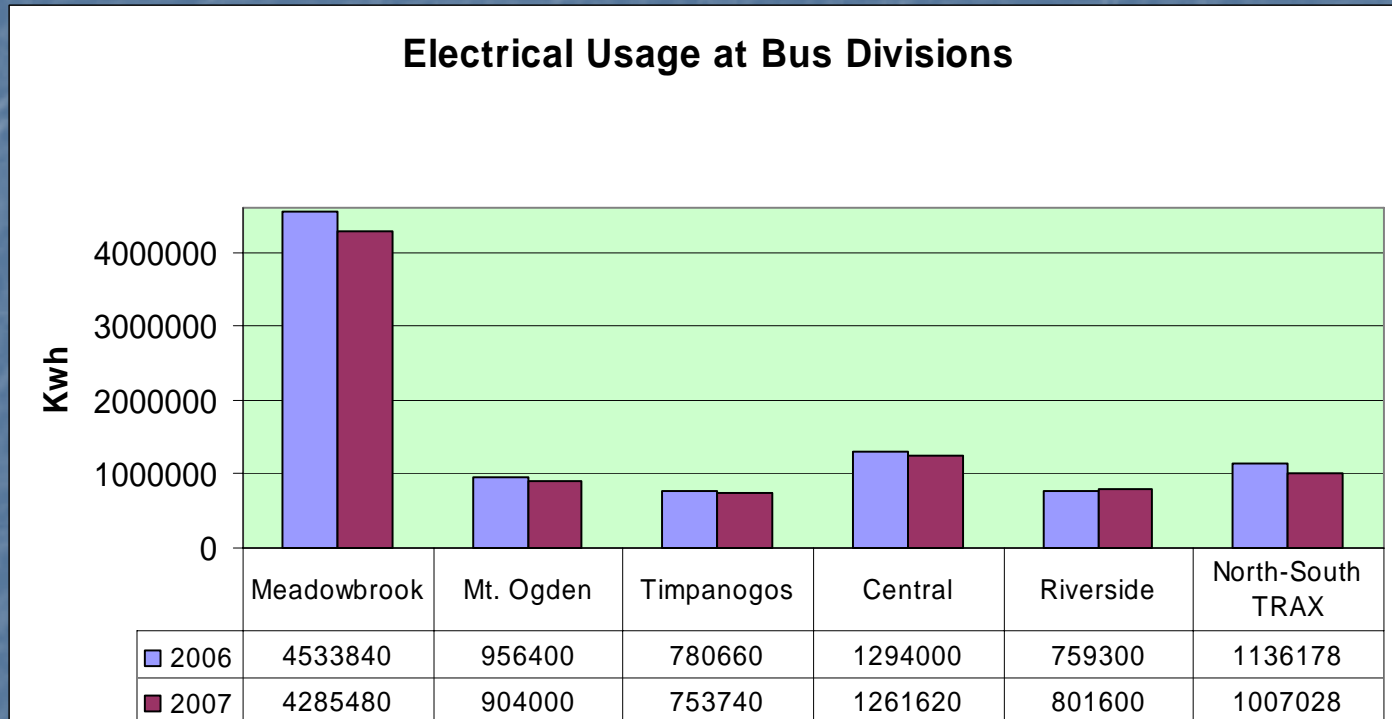


# Printing

- Saved \$72,000 first year
- Saved over \$200,000 third year
- Eliminated print shop, improved availability of schedules, saved printing cost, eliminated indoor air quality problems



# Energy Conservation



% Reduction	5.48%	5.48%	3.45%	2.50%	-5.57%	11.37%
CO <sub>2</sub> Tons Reduced	167	35	18	22	-28	87
Cost savings	19,868.00	4,192.00	2,153.60	2,590.40	-3,384.00	10,332.00

# What UTA Has Accomplished

## Brownfield Site Clean-Up

Before



**Ballpark Station**



**Rail Services Center**



**Pallas Yard**

After





# Sustainability is Good Transit Management

- Take a broad view of stakeholders, including future generations
- Take initiative to create collaboration and action
- Take a long-term view of success

