



# **Sustainable Communities Conference**

## **EPA Region 6**

**Dallas, Texas**  
**March 10, 2009**

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### **LFG Direct Use Project Between**

### **City of Arlington Landfill**

### **And**

### **City of Fort Worth**

### **Village Creek Wastewater Treatment**

### **Plant**

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# City of Arlington Landfill – Village Creek Waste Water Treatment Plant

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- Players
- Challenges
- The DEAL
- Benefits
- From inception to operation



# Players

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- Participants and roles in project:
  - City of Arlington / landfill owner
  - Republic Waste / landfill operator
  - City of Fort Worth / end-user
  - River Legacy Park / key ROW
  - Renovar Energy Corp / developer

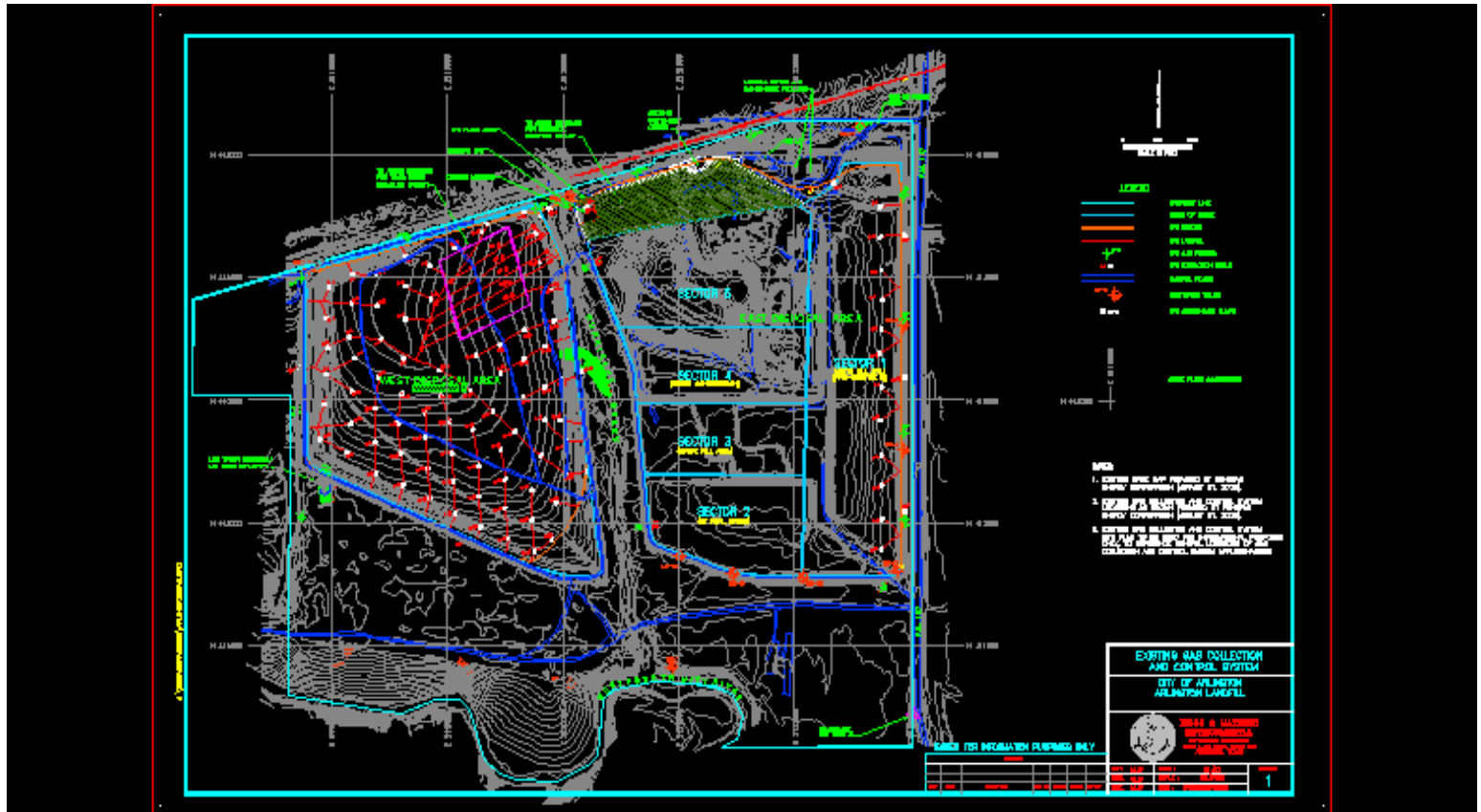


# Challenges

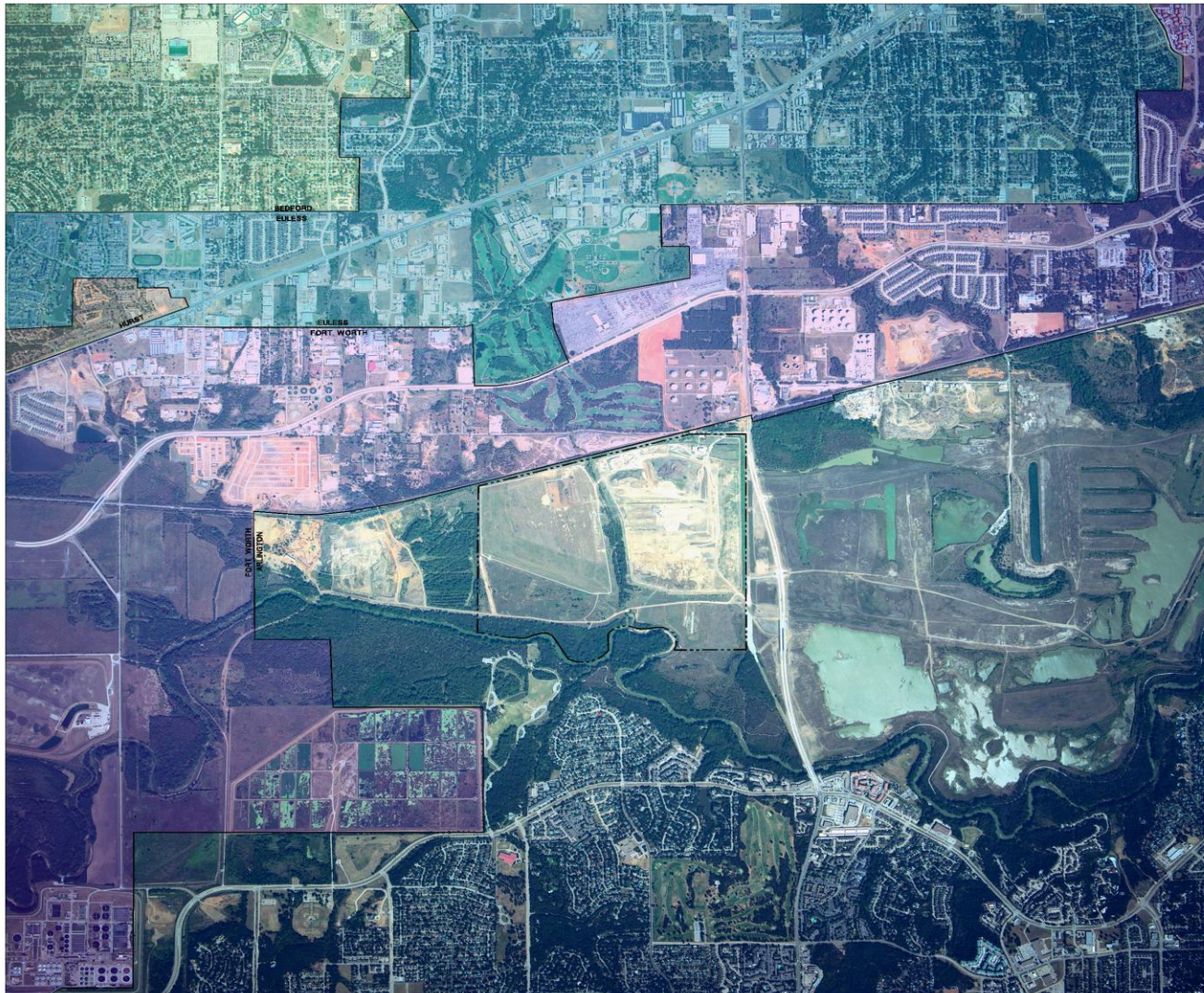
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- City of Arlington Landfill
  - Footprint
- Rights-of-Way / Pipeline Route
- Trinity River
- River Legacy Park
- City of Fort Worth
  - Gas market
- Various Permits

# City of Arlington Landfill Issues



# Rights-of-Way and Pipeline Route



ARLINGTON LANDFILL



PLANNERS  
DEVELOPMENT CONSULTANTS  
LANDSCAPE ARCHITECTS  
<http://www.rvcl.com>  
(972) 489-6992

AERIAL PHOTOGRAPHY:  
Dallas Aerial Surveys, Inc.  
October 4, 2002



NORTH

0 50 100 200  
FEET

File: L:\020802\arlandf\_08a.dwg

# Pipeline Construction

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# Trinity River



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# River Legacy Park



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# City of Fort Worth – Village Creek Waste Water Treatment Plant

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- General Information
  - 166 MGD Capacity
  - Over 750,000 people and industries
  - 24 communities
- Power Information
  - 6-8 MW electric demand
  - 10 MW generation capacity
  - Renewable fuels



# Permits

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- TCEQ
- City of Arlington
- City of Fort Worth
- Department of Transportation
- Corps of Engineers
- Trinity River Authority



# Summary of Agreements

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- Landfill Gas Lease – City of Arlington
  - 20-year lease
  - Operate collection system
  - Obligation to expand gas system
  - Royalty
  - Carbon credits
- Gas Sales Agreement – City of Fort Worth
  - 15-year sales agreement
  - Fixed and variable pricing components
  - REC's sharing



# Environmental & Economic Benefits

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- Reduce CO<sub>2</sub> emissions by over 24,000 tons per year
- Save City of Arlington \$4 Million over life of project
- Save City of Fort Worth significant operating costs (electric power)

# Renovar LFGTE Facility Arlington, Texas

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# Renovar LFGTE Case Study

## Arlington Project Timeline

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- Acquired landfill gas rights **Dec 1999**
- Signed gas market contract **Nov 2001**
- Engineering completed **Aug 2002**
- ROW and permits received **Sep 2002**
- Construction commenced **Sep 2002**
- Project operational **Dec 2002**
- Expansion of GCCS **Jul 2004**
- Expansion of GCCS **Oct 2006**
- Expansion of GCCS **Jan 2009**

**Patience is a Virtue**



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### **LFG Direct Use Project Between City of Arlington Landfill and City of Fort Worth Village Creek Wastewater Treatment Plant**

***QUESTIONS ???***