

# Denton Eco-W.E.R.C.S. Complex Permit Amendment

NCTCOG Conformance Review

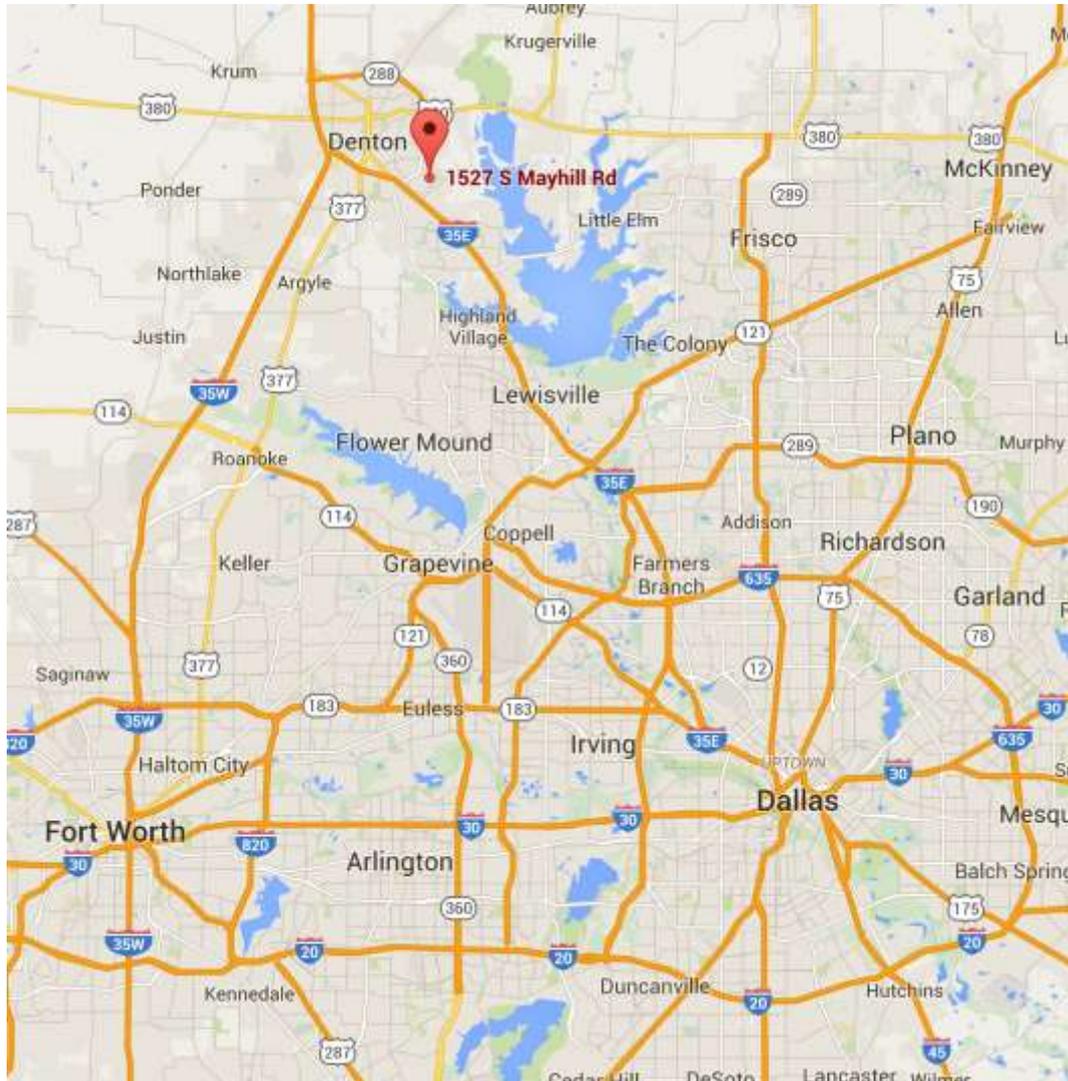
March 30, 2017

# Introduction

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- The Denton facility has been in operation since 1985 and includes several facilities
  - Home Chemical Collection, Building Material Recovery, Grease and Grit Trap Processing (not operational), Landfill Mining, Enhanced Leachate Recirculation, Landfill Gas to Energy, Source Separated Organics Composting
- Currently accepting 700-1,000 tons per day

# Site Location



# Site History

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- 1984 – TDH Permit 1590 issued (30 ac total)
- 1985 – Waste acceptance commences
- 1997 – TNRCC Permit 1590A issued (154 ac total)
- 2009 – Enhanced Leachate Recirculation Permitted
- 2013 – Grease and Grit Trap Waste Permitted
- 2016 – Landfill Mining Approved
- 2017 – Permit Amendment Submitted
  - Increase waste footprint 107 acres, 261 acres total

# Current Operations/Facilities

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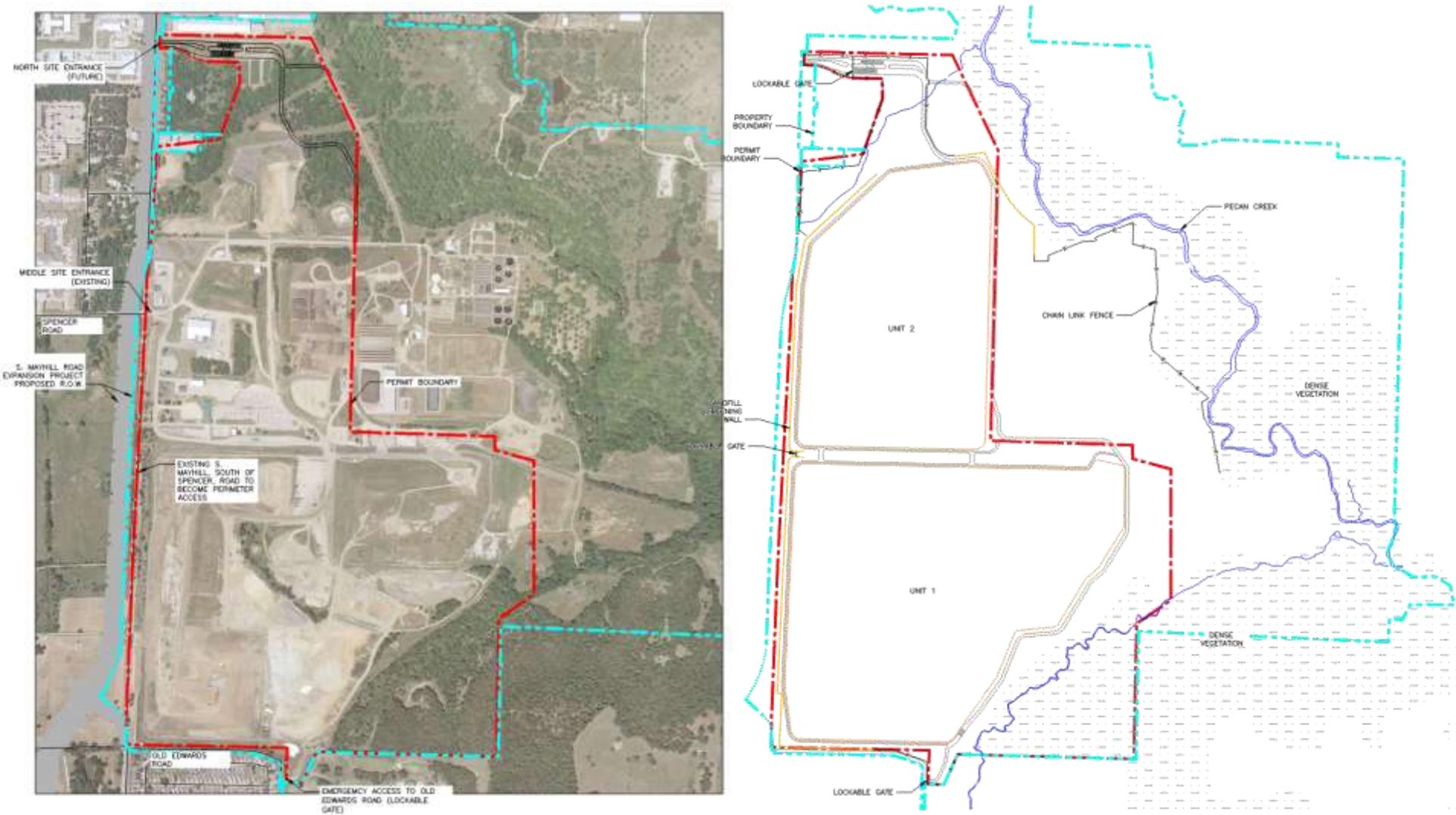
- Type I Landfill
- Home Chemical Collection
- Enhanced Leachate Recirculation
- Landfill Mining
- Building Material Recovery
- Citizen Drop-off areas
- Landfill Gas-to-Energy (3<sup>rd</sup> Party)
- Bio-Diesel Production (3<sup>rd</sup> Party)
- Material Recovery Facility (3<sup>rd</sup> Party)

# Permit Amendment Summary

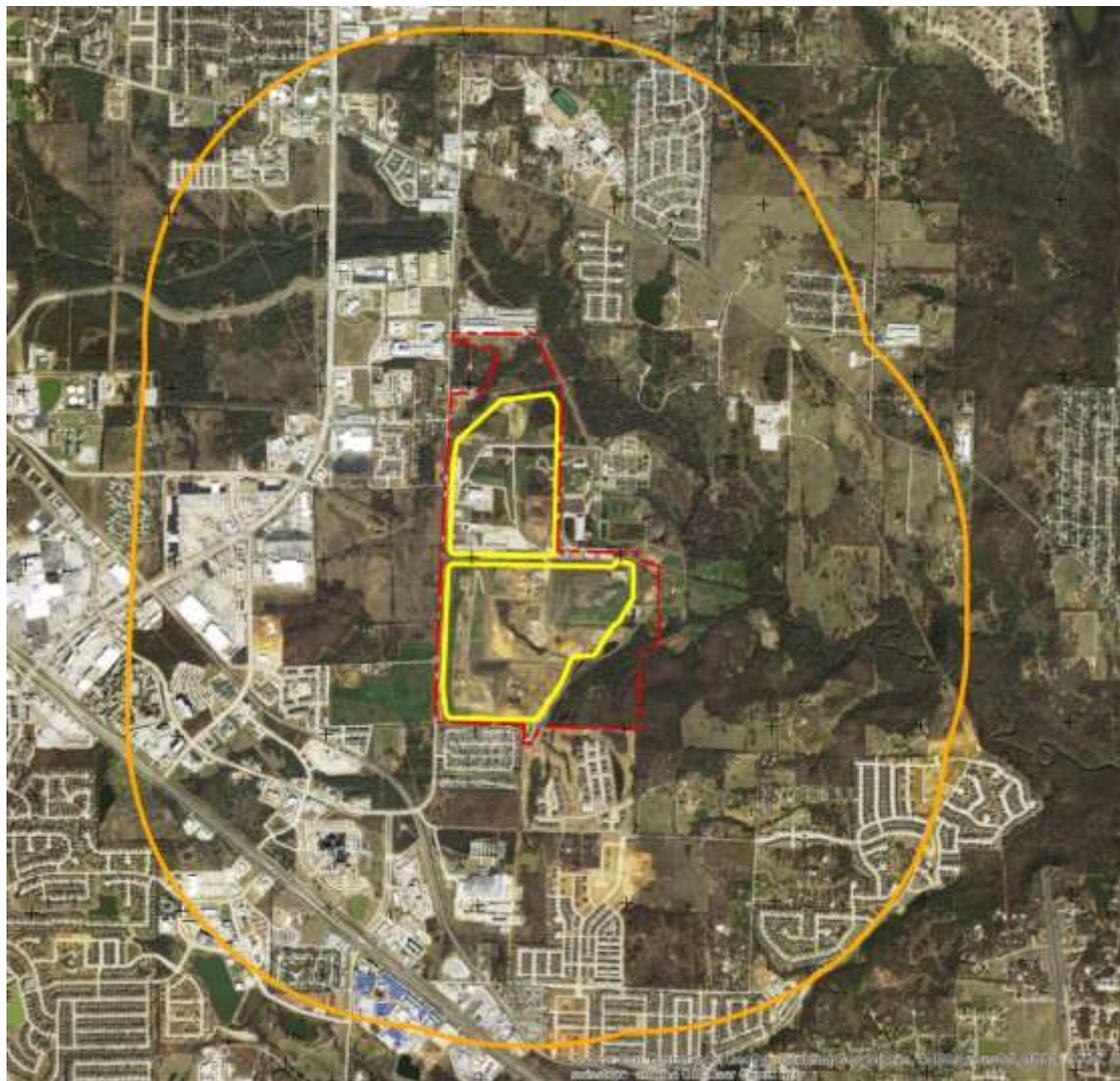
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- Lateral and vertical expansion
- Incorporate additional waste streams:
  - Non-hazardous industrial waste
  - Landfill Mining (approved 2016)
  - Liquids Solidification
  - SSO Composting expansion
- Exposed Geomembrane Final Cover

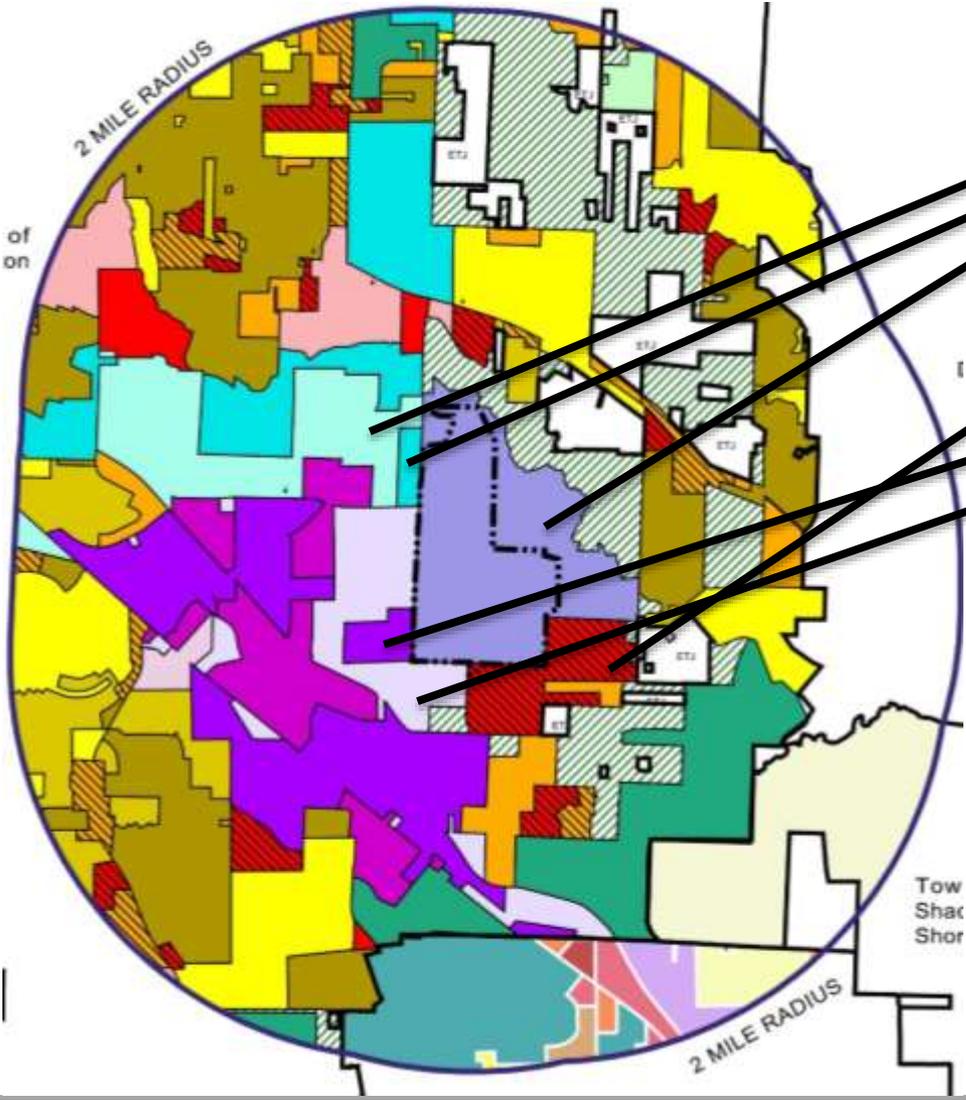
# Permit Amendment Summary



# 1-Mile Radius



# Zoning



## City of Denton

|         |   |
|---------|---|
| A       | Agricultural                            |
| CM-E    | Community Mixed Use Employment          |
| CM-G    | Community Mixed Use General             |
| EC-C    | Employment Center Commercial            |
| EC-I    | Employment Center Industrial            |
| IC-G    | Industrial Center General               |
| NR-2    | Neighborhood Residential 2              |
| NR-3    | Neighborhood Residential 3              |
| NR-4    | Neighborhood Residential 4              |
| NR-6    | Neighborhood Residential 6              |
| NRHU    | Neighborhood Residential Mixed Use      |
| NRHU-12 | Neighborhood Residential Mixed Use 12   |
| PD      | Planned Development                     |
| RCC-D   | Regional Center Commercial Downtown     |
| RCC-N   | Regional Center Commercial Neighborhood |
| RCR-1   | Regional Center Residential 1           |
| RCR-2   | Regional Center Residential 2           |
| RD-5x   | Rural Residential 5x                    |
| ETJ     | City of Denton ETJ                      |

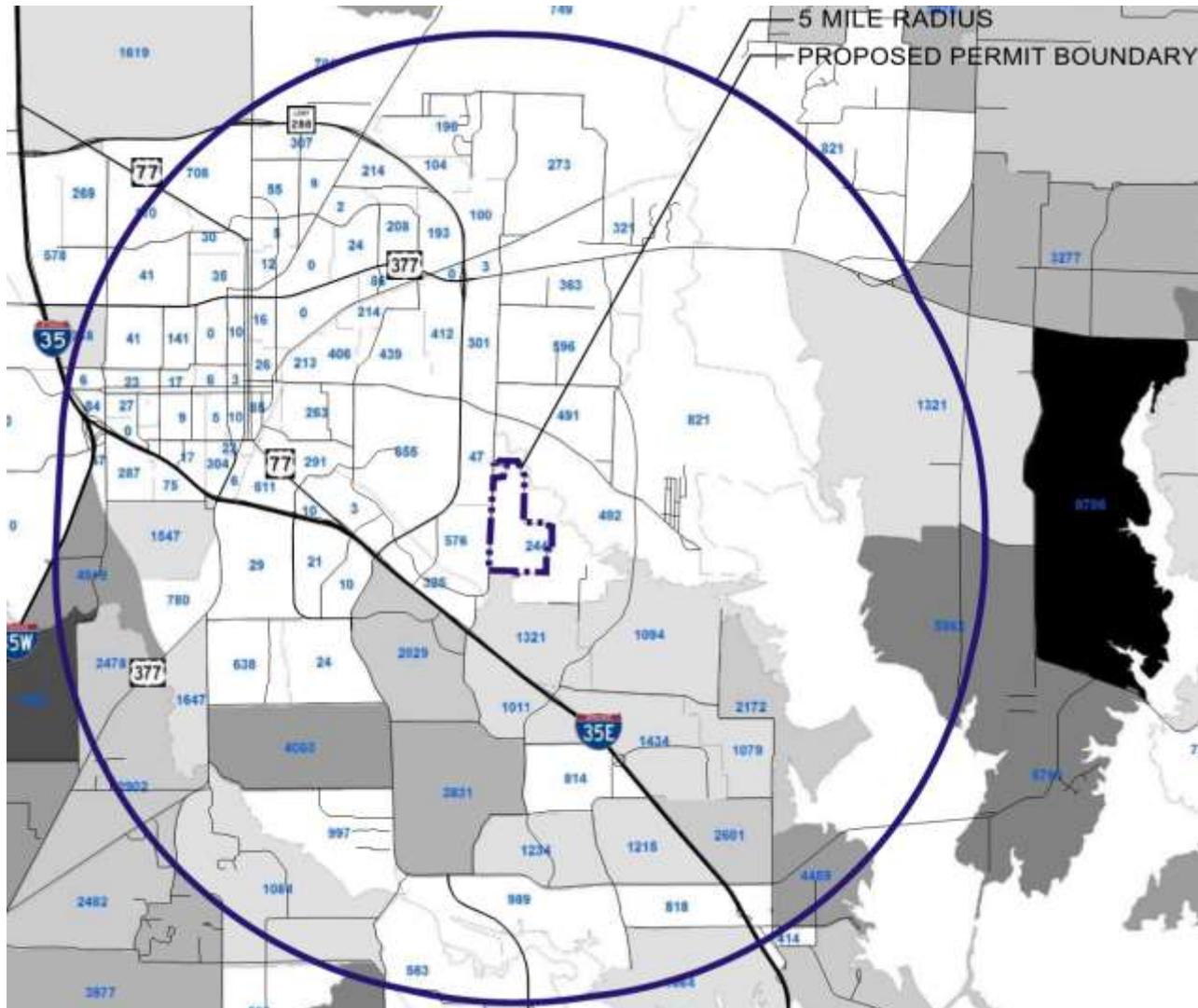
## City of Corinth

|      |                           |
|------|---------------------------|
| C-1  | Commercial                |
| C-2  | Commercial                |
| C-3  | Commercial                |
| I    | Industrial                |
| PD   | Planned Development       |
| SF-1 | Single Family Residential |
| SF-2 | Single Family Residential |
| SF-3 | Single Family Residential |
| SF-4 | Single Family Residential |
| U-1  | Utility                   |

## Town of Shady Shores

|        |  |
|--------|--|
| R-2000 | Single Family Residential 2000 (Entire City) |
|--------|--|

# Growth Trends



# Approximate Present Day Conditions



# Proposed Landfill Unit 1



# Proposed Landfill Unit 2



# Discussion

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