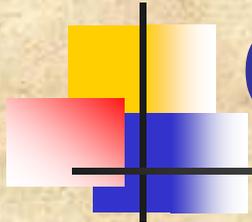


# Rochester Public Utilities

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GIS Software, Data, Uses, Benefits

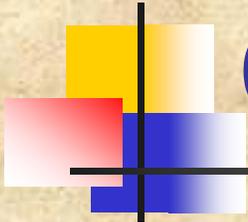




# GIS Software



- ESRI
  - ArcMap 9.x
    - ArcInfo
    - ArcEditor
    - ArcView
    - ArcSDE
    - ArcEngine
  - ArcView 3.3
  - ArcIMS\*
- Miner & Miner
  - ArcFM
  - ArcFM Viewer
  - Designer
  - Responder
- SQL Server
- AutoCAD 2005

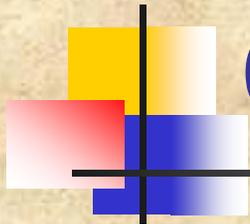


# GIS Data



- Electric Facilities<sup>1</sup>
  - Switches
  - Fuses
  - Transformers
  - Streetlights
  - Overhead Lines
  - Underground Lines
  - Poles
  - Risers
  - Pedestals
  - Manholes
  - Circuit Breakers
  - Grounds
  - Guy Wires
  - Bus Bar
  - Service Territory

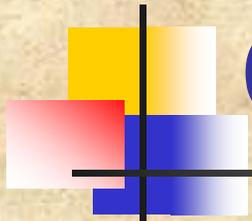
- Water Facilities<sup>1</sup>
  - Service Lines
  - System Valves
  - Hydrants
  - Manholes
  - Fittings
  - Distribution Main
  - Lateral Lines
  - Main Breaks
  - Wells & Towers
  - High/Low Pressure Areas
  - Tower Service Areas



# GIS Data



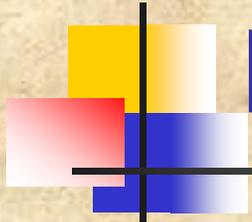
- Address Points<sup>1</sup>
- Parcel Information<sup>1,2</sup>
- Subdivisions<sup>1,2</sup>
- Easements<sup>1,2</sup>
- Road Names<sup>2</sup>
- Center Lines<sup>2</sup>
- City Limits<sup>2</sup>
- Aerial Photos<sup>1,3</sup>
- Sewer Lines<sup>3</sup>
- Wellhead Protection Zones<sup>1</sup>
- Soil types
- Land Use Plans<sup>2</sup>
- Decorah Edge<sup>2</sup>
- Karst Features<sup>4</sup>
- 2' Contours<sup>4</sup>
- 1/4 Sections<sup>4</sup>
- Contractor Plans<sup>4</sup>



# GIS Users



- Engineering
  - Design, Query, Track History
- Environmental Services
  - Emissions modeling, WHP, Development Analysis
- Customer Service
  - Service Assured, Customer ID
- Marketing
  - Customer relations, Marketing plans
- Accounting
  - GASB 34 – Asset tracking
- System Operations
  - System Analysis, Outage Response, Crew Dispatching
- Electric & Water Crews
  - Facility Location & Identification, Customer Location



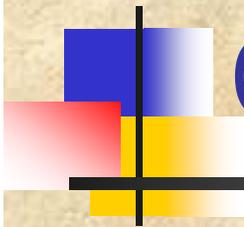
# Benefits of GIS



- Easy access for more users.
- Visual picture vs. tabular database.
- Easily identify & cleanup errors.
- Easier to keep current.
- Ties electric & water facilities together.
- Less printing of paper maps.



Electric Field Map  
Water Field Map



# Questions?

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