



The **Village of Deerfield**, Illinois

Deerfield Water Reclamation Facility Design Report Update

Public Informational Meeting No. 1

July 24, 2008

Presentation Outline

- Project Goals
- WRF History and Overview
- WRF Needs and Project Drivers
- Key Consideration
- WRF Concepts
- Project Status
- Next Steps & Schedule

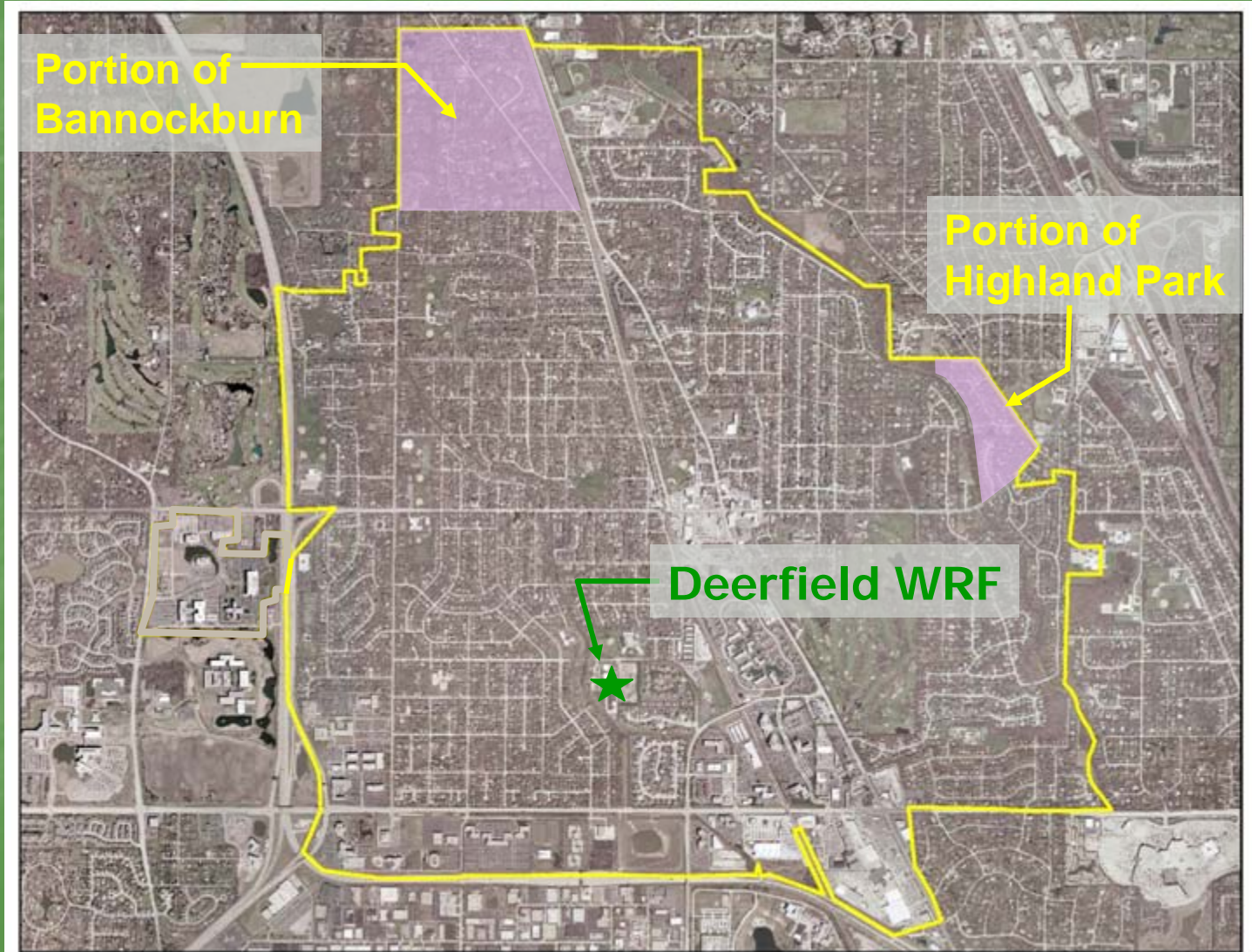


Goals of WRF Project

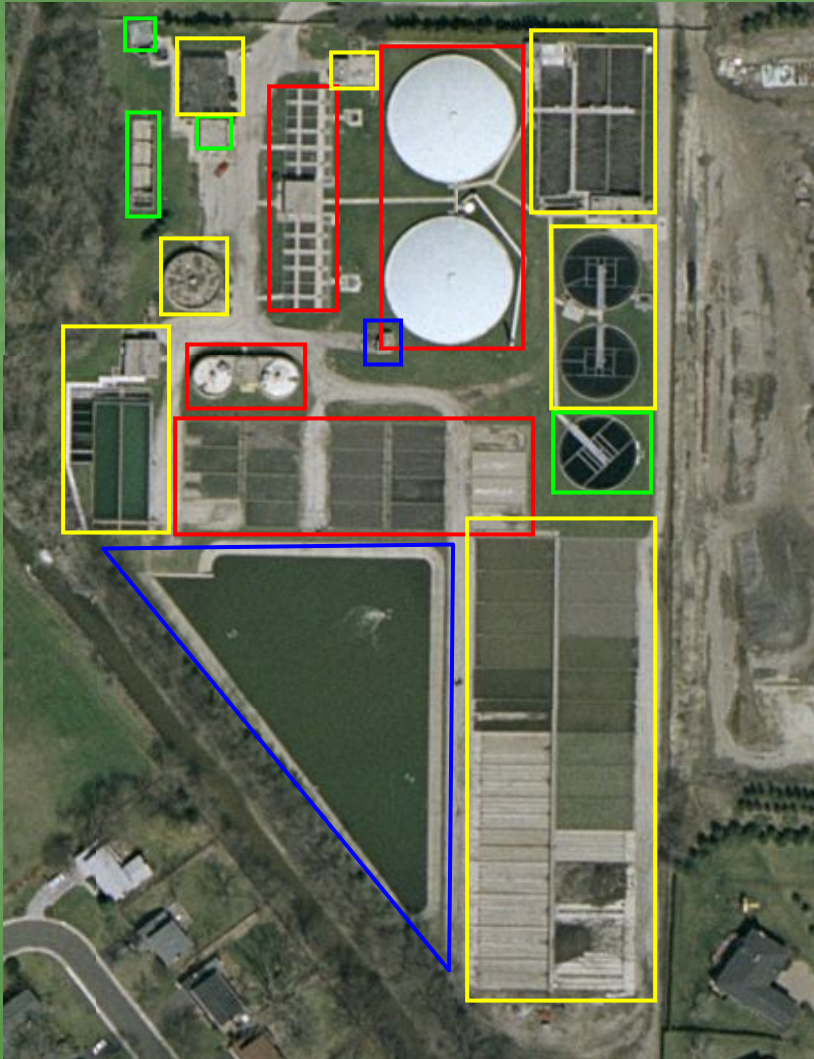
- Meet environmental requirements for the lowest practical cost to the ratepayers.
- Improve efficiencies and reliability by replacing outdated treatment processes and equipment.
- Provide confident direction for the next several decades.



Deerfield WRF Service Area



Wastewater Reclamation Facility History of Construction



1950s

1960s

1970s

1980s

*Most of the plant
is more than 30
years old!*



Project Need and Drivers

1. Plant age and deficiencies
2. Space needs,
controls/automation
3. Regulatory changes



The WRF is Showing Its Age



The WRF is Showing Its Age



Storage, Maintenance, and Office Spaces are Limited



System Controls are Outdated and Unreliable



Regulatory Concerns

Existing Concerns:

- Dissolved oxygen limit (no positive control)
- Effluent flow measurement (none existing)
- Excess flow discharge measurement (none)



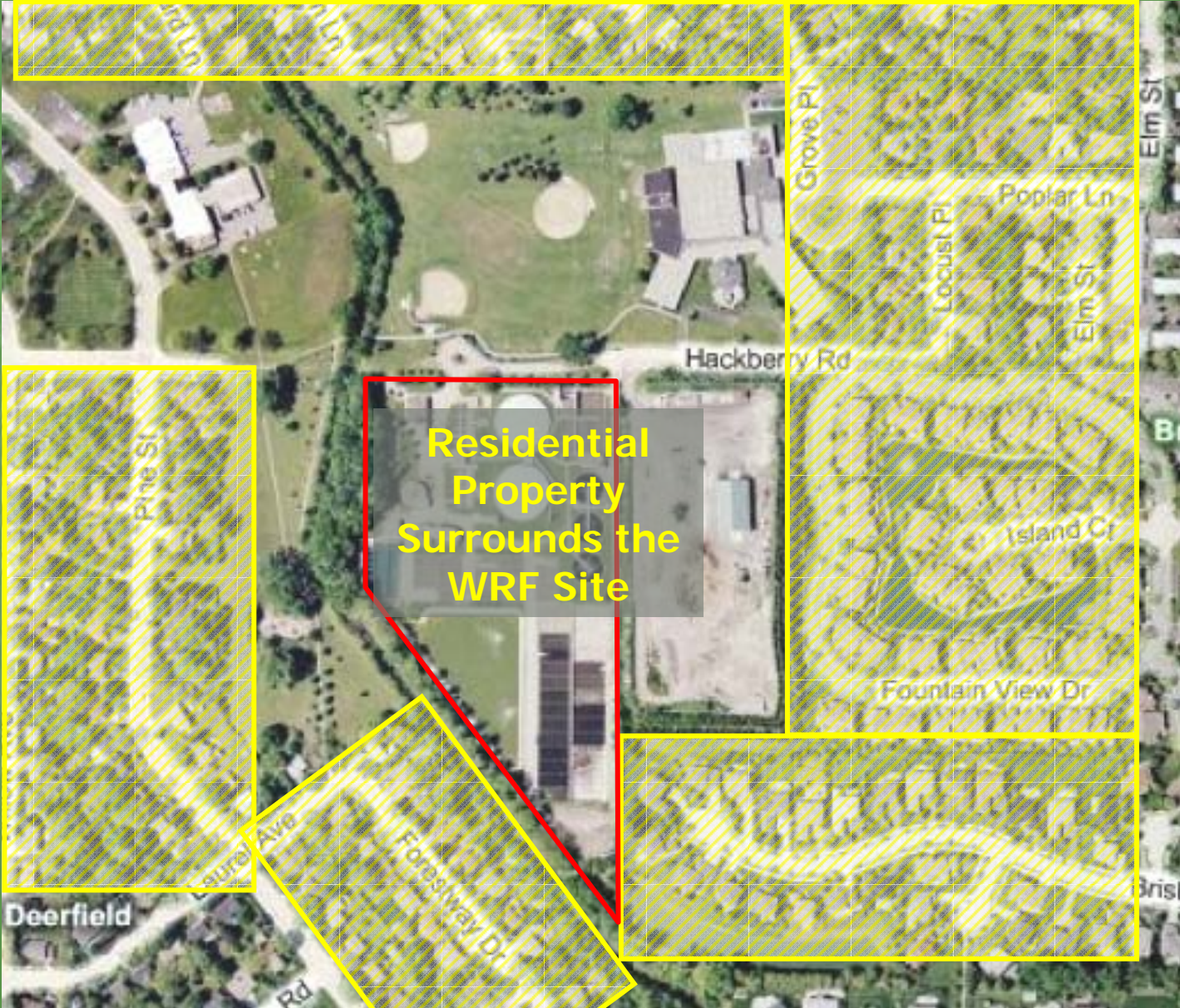
Regulatory Concerns

Future Concerns:

- Phosphorus limits
- Total nitrogen limits
- Flexibility for future unknown limits



Key Considerations – Nearby Residences



Key Considerations - School and Parks

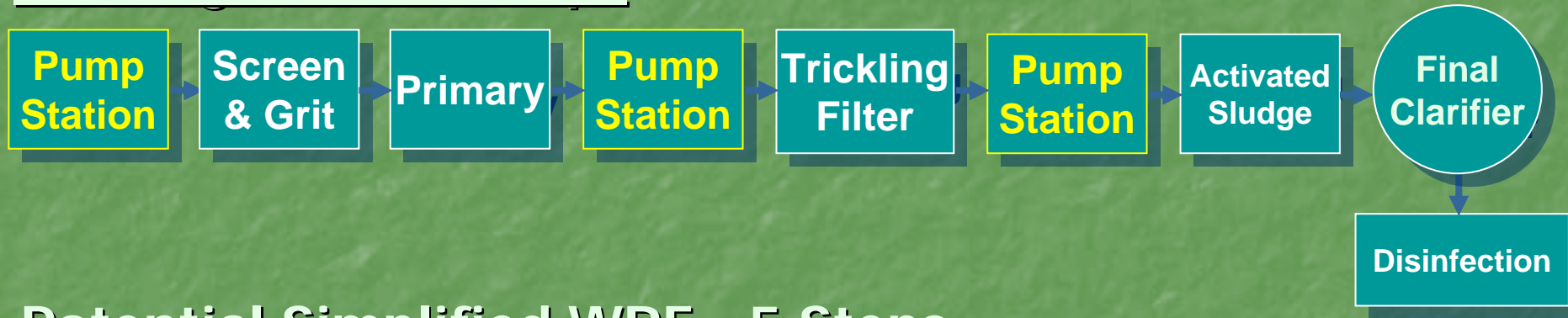


Key Considerations – Construction Noise, Traffic, Access



Key Considerations - Simplify the WRF

Existing WRF - 9 Steps



Potential Simplified WRF - 5 Steps



- *Lower Capital \$*
- *Lower Operating \$*
- *Lower Maintenance \$*

- *Easier to Operate*
- *Easier to Maintain*
- *Improved flexibility*

Wastewater Reclamation Facility Desired Features and Outcomes

1. Lowest practical cost (sewer rates)
2. Environmental stewardship
3. Aesthetics for neighbors
4. Flexibility for future regulations
5. Robustness for long-term needs



Public Meetings

Meeting No. 1 – July 24, 2008

- Introduction
- Background
- Goals, Concepts, Concerns

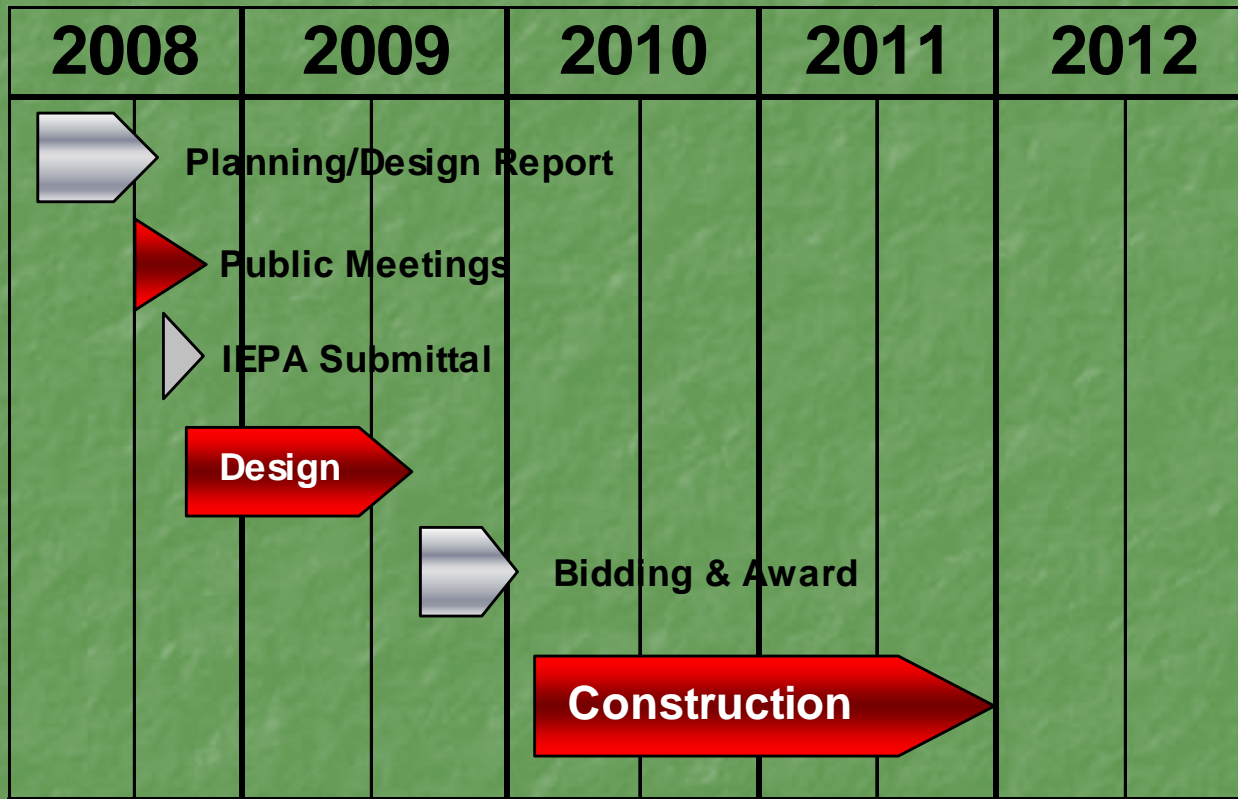
Meeting No. 2 – August 2008

- Recommendations
- Preliminary Costs
- Preliminary Rate Impacts

Meeting No. 3 – TBD Based on Need



Preliminary Project Schedule





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Questions and Answers