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Water Treatment Plant #5

Project Update

February 5, 2019

Agenda

- Purpose
- Engagement
- Scope

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Purpose

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- Purpose of Dublin Plant: Increase filtered water to ~99% of days to improve water quality Citywide
- Other Benefits:

  Address two of four system issues from water supply plan

  1) Address overlapping water age issue

  2) Address overlapping east-west flow capacity issue to increase resiliency, operational flexibility and improve emergency response and water availability for fire operations

Filtered Water

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What does it mean to increase filtered water to ~99% of days?

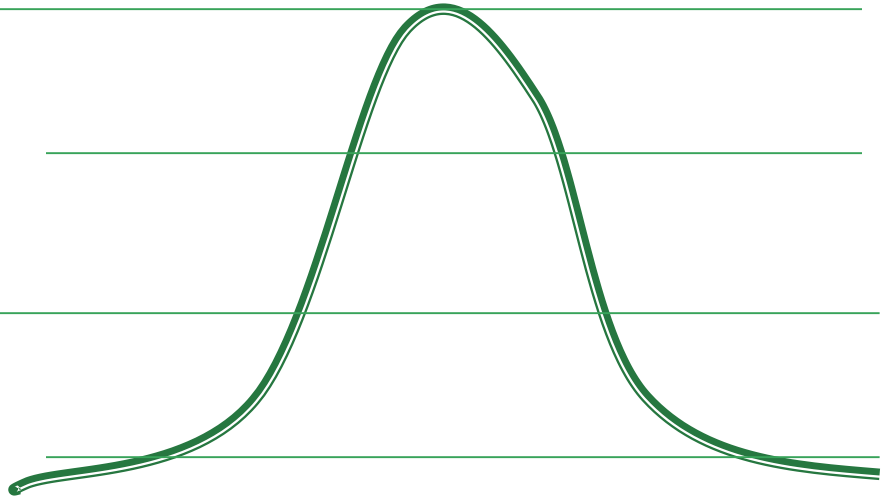
19.3 mgd = future max day

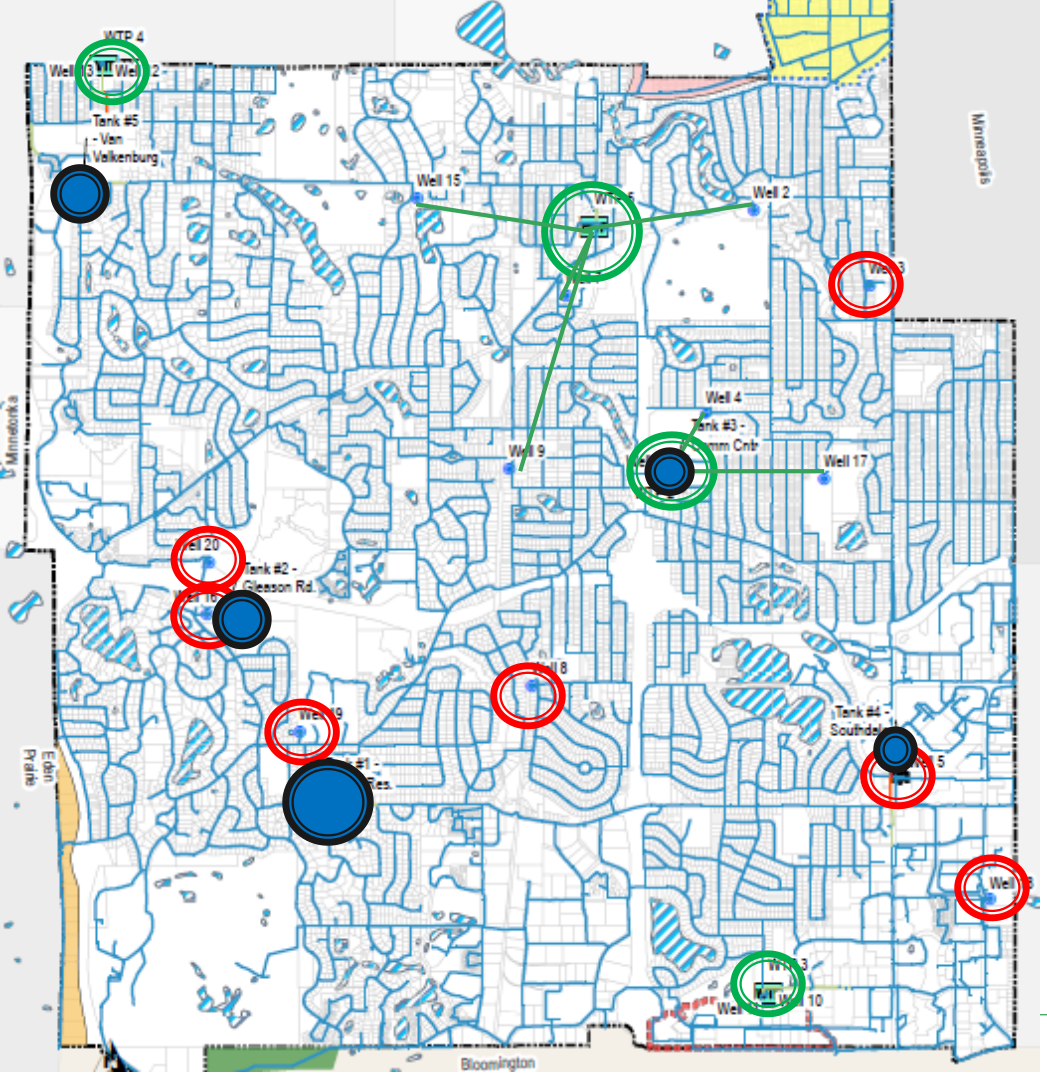
17.9 mgd = max day

13.8 mgd = existing filtered capacity

7.7 mgd = average day demand

4.3 mgd = average winter day demand





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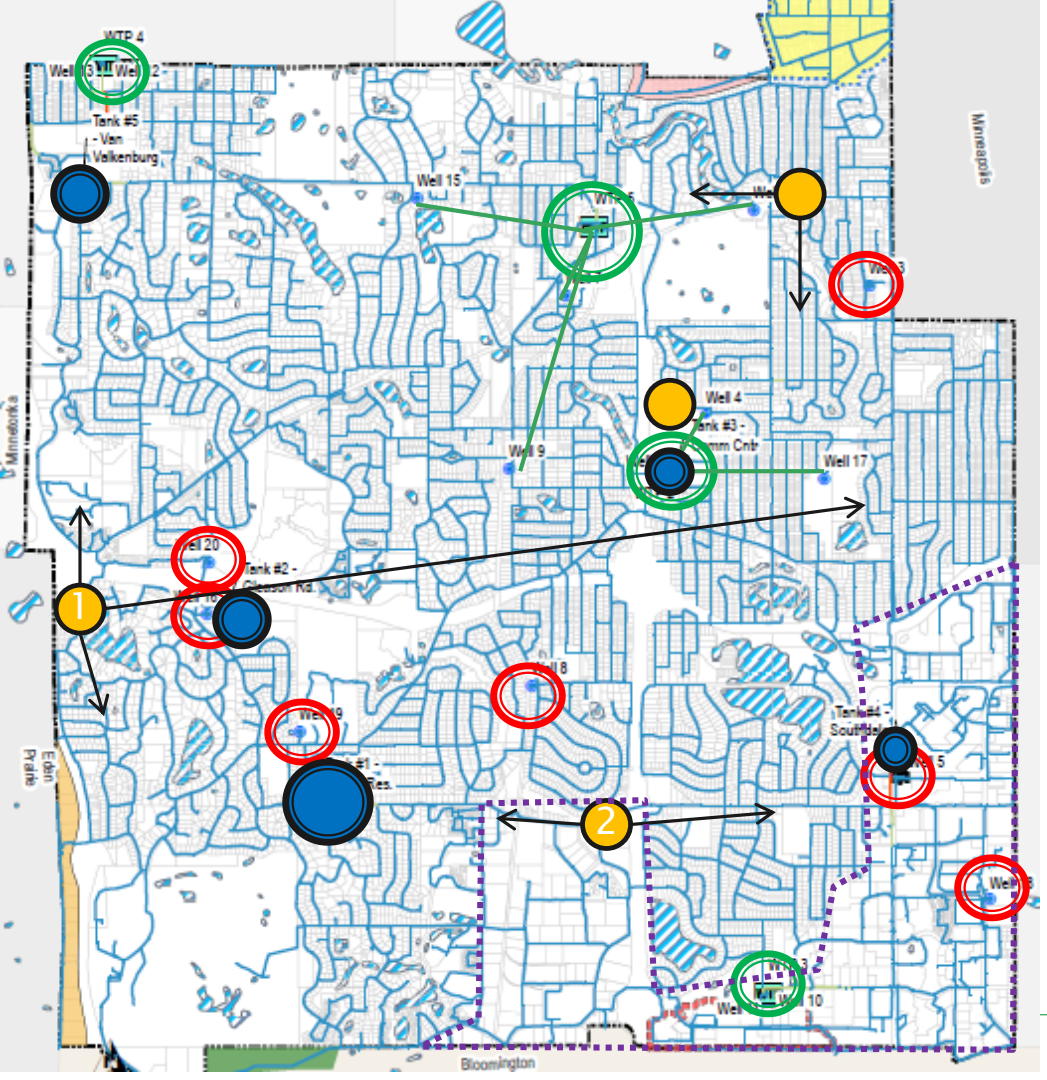
Overall system

- Filtered supply
- Unfiltered supply
- Storage



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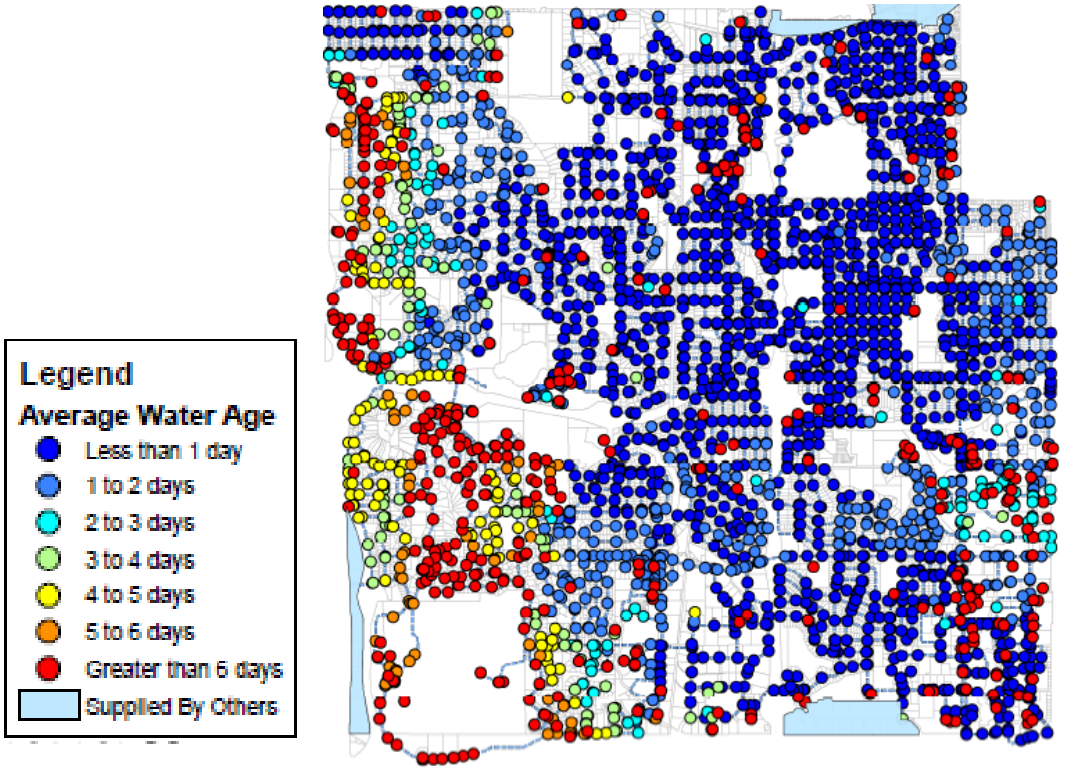
Overall system

- Filtered supply
- Unfiltered supply
- Storage
- System needs
- ~1/2 demand

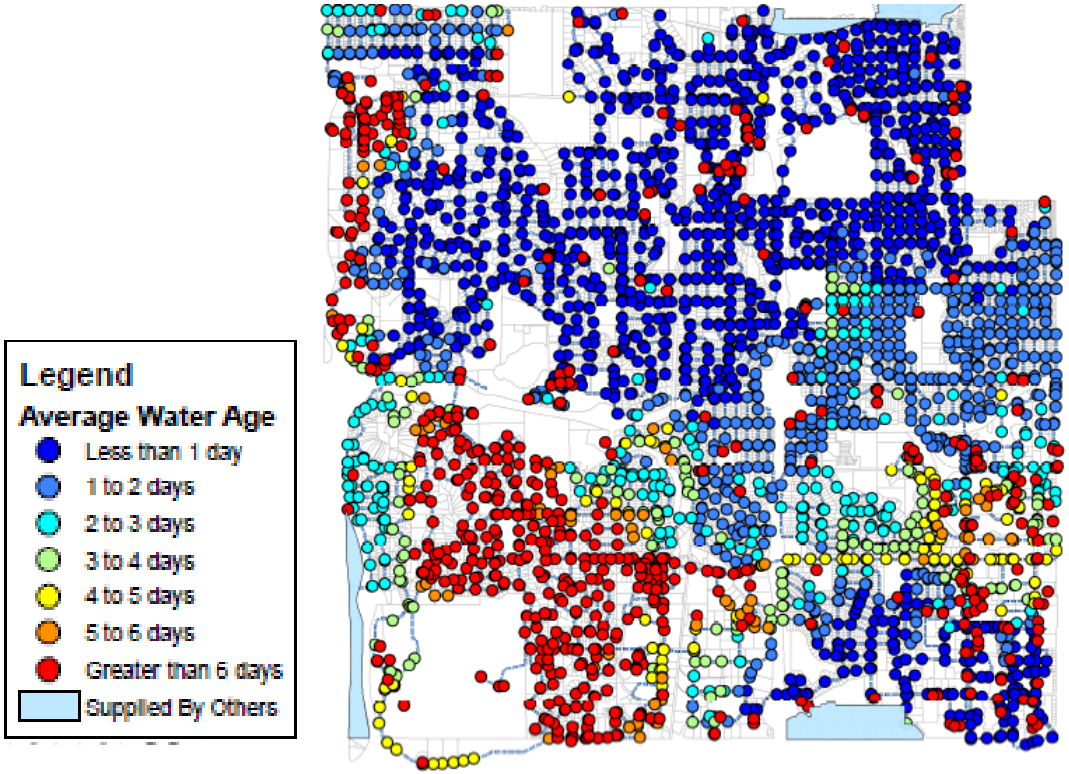
Water Age

- Dublin Reservoir Off



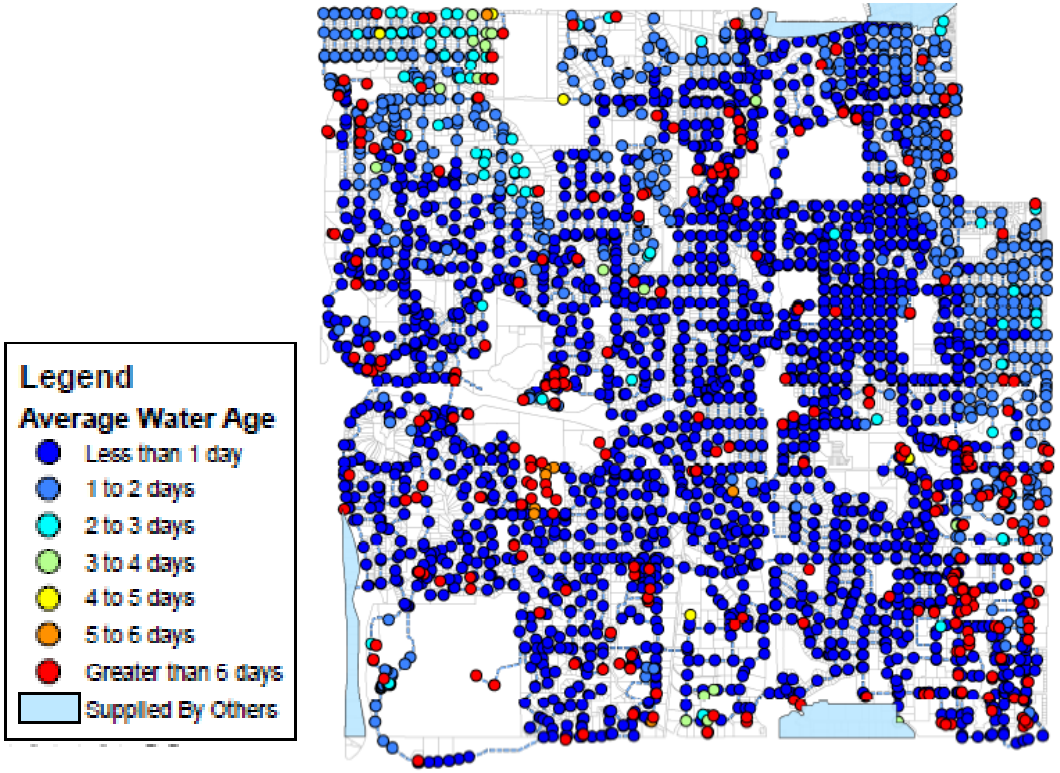
Water Age

- Dublin Reservoir On



Water Age

- WTP at Dublin



East – West Flow Capacity

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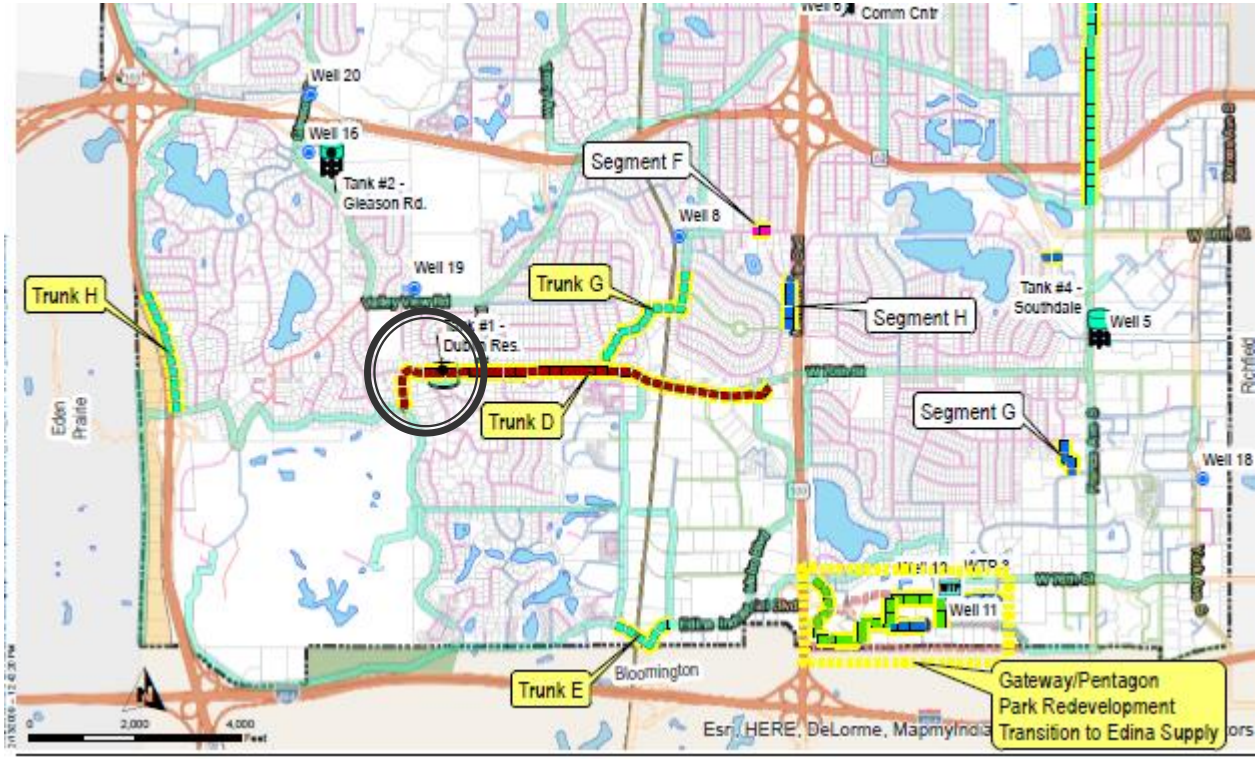

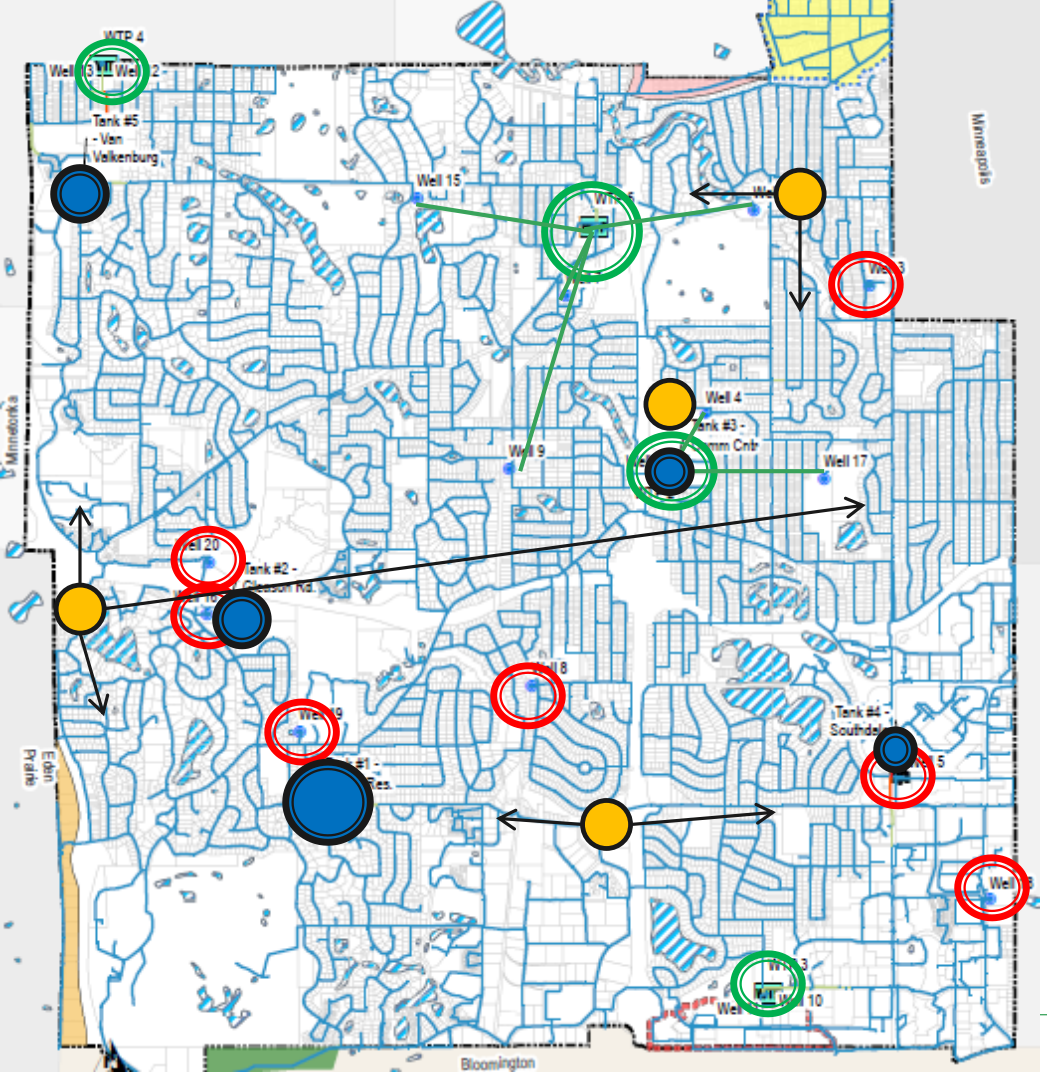

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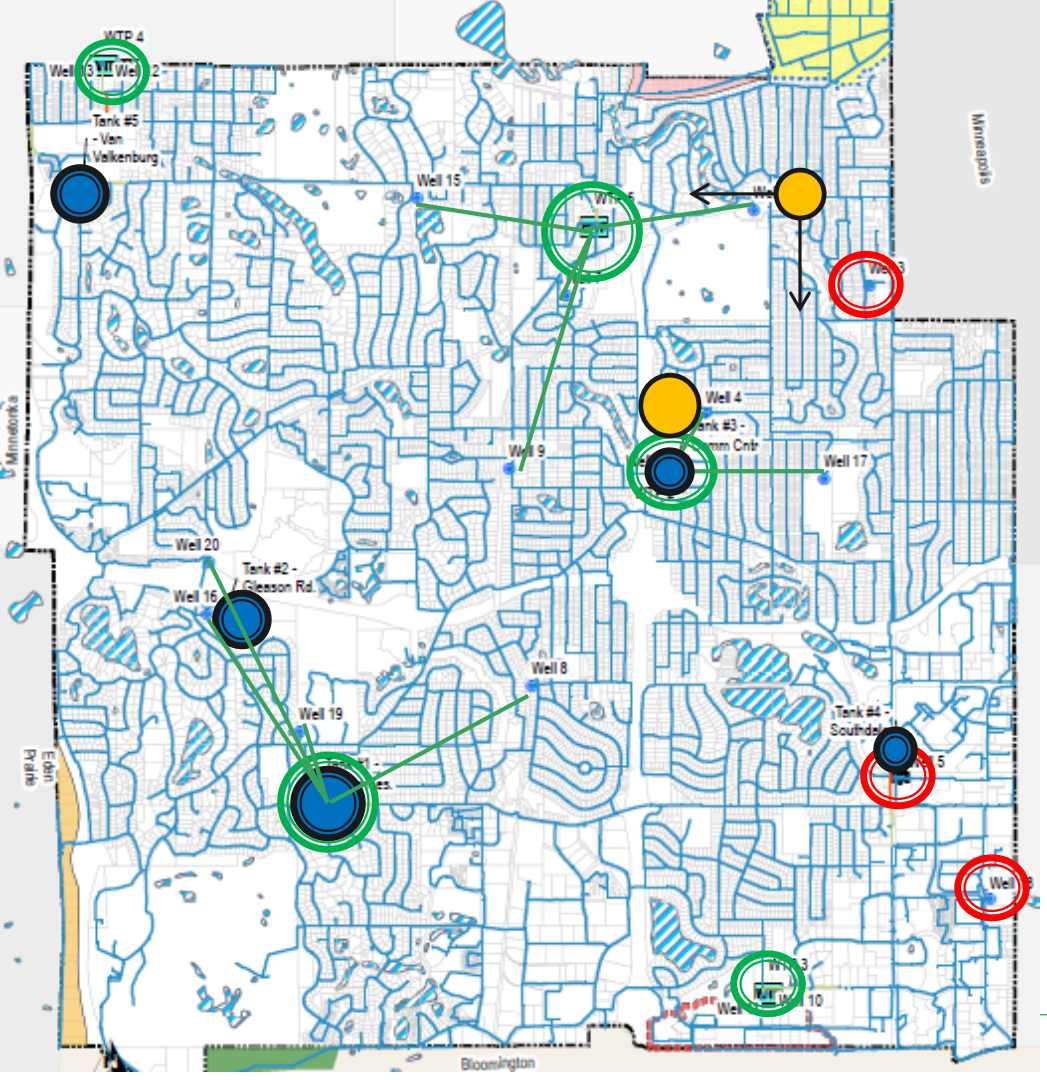
Overall system

- Filtered supply
- Unfiltered supply
- Storage
- System needs



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Overall future system

- Filtered supply
- Unfiltered supply
- Storage
- System needs

Purpose - Review

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  Address two of four system issues from water supply plan

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  Increase resiliency and operational flexibility.

  Improve emergency response and water availability for fire operations

Purpose - Review

The CITY of EDINA

- Purpose of Dublin Plant: Increase filtered water to ~99% of days to improve water quality Citywide
- Other Benefits:
  - Address two of four system issues from water supply plan
  - 1) Address overlapping water age issue
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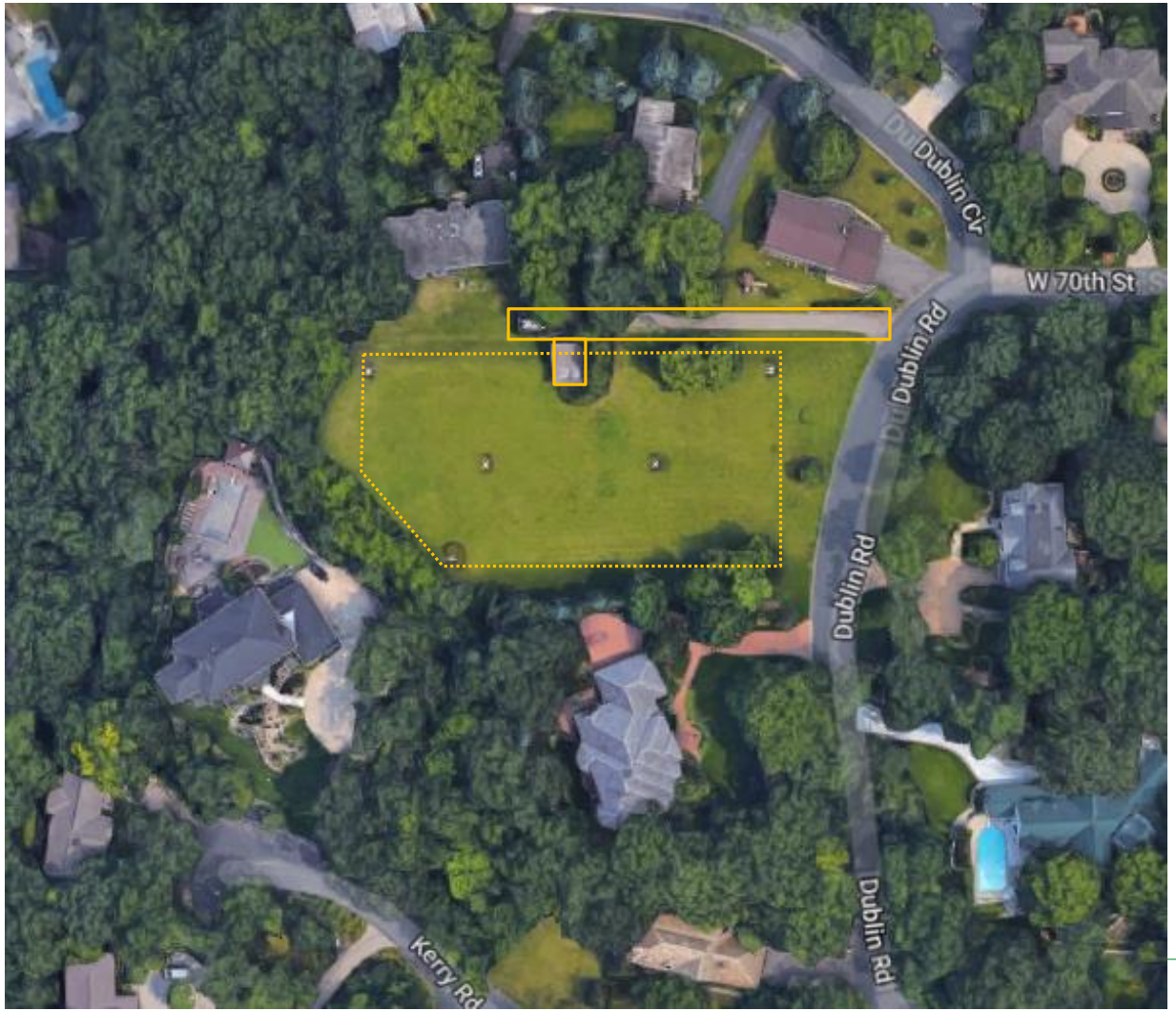
  - Increase resiliency and operational flexibility.
  - Improve emergency response and water availability for fire operations
- Requirement: Be a good neighbor



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Dublin Reservoir

4 million gallons underground

Booster pump building and generator

Entrance drive

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Neighbors

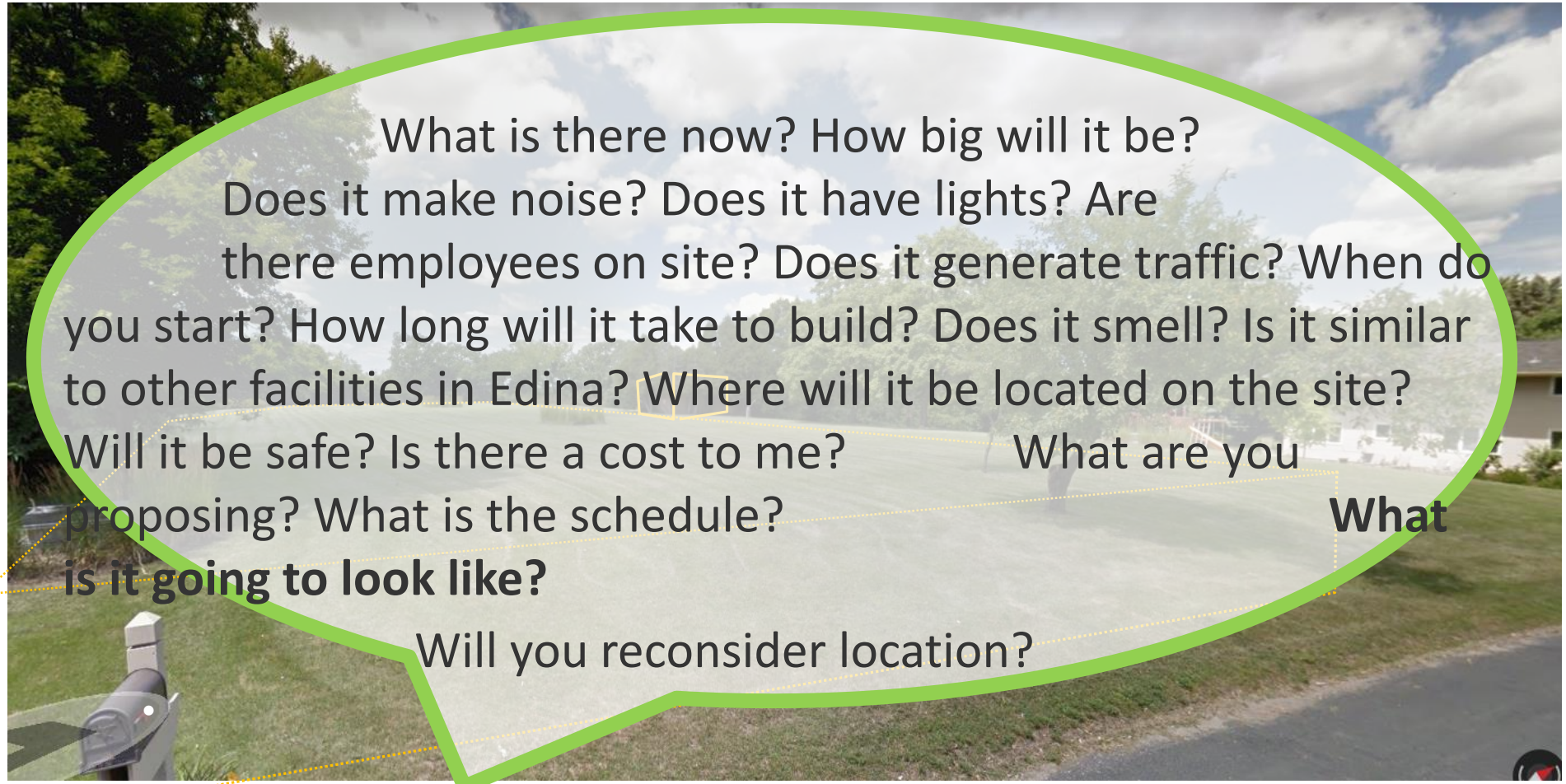
Open field look

Deer, turkey

Open space, dogs

Light, sunsets

Park feel, pick up sports games, kids


What is there now? How big will it be? Does it make noise? Does it have lights? Are there employees on site? Does it generate traffic? When do you start? How long will it take to build? Does it smell? Is it similar to other facilities in Edina? Where will it be located on the site? Will it be safe? Is there a cost to me? What are you proposing? What is the schedule? What is it going to look like? Will you reconsider location?

Public Participation

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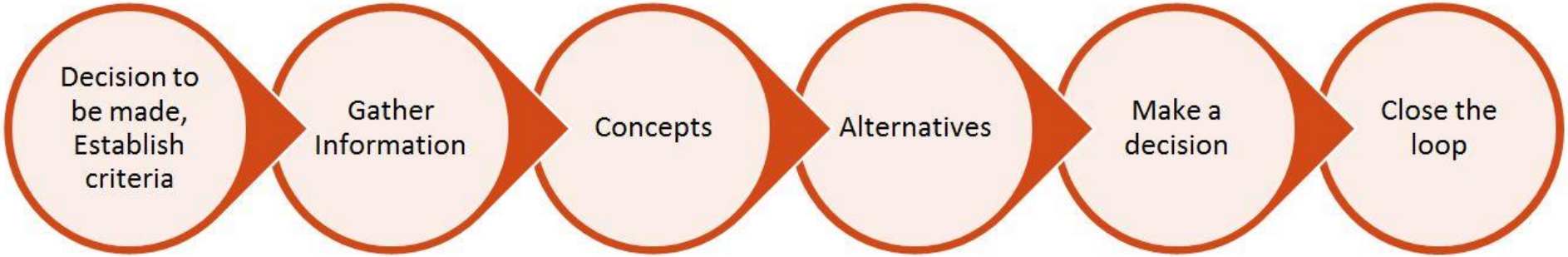

Goal: We will work directly with the public throughout the process to ensure that public concerns and aspirations are consistently understood and considered.

Public Participation

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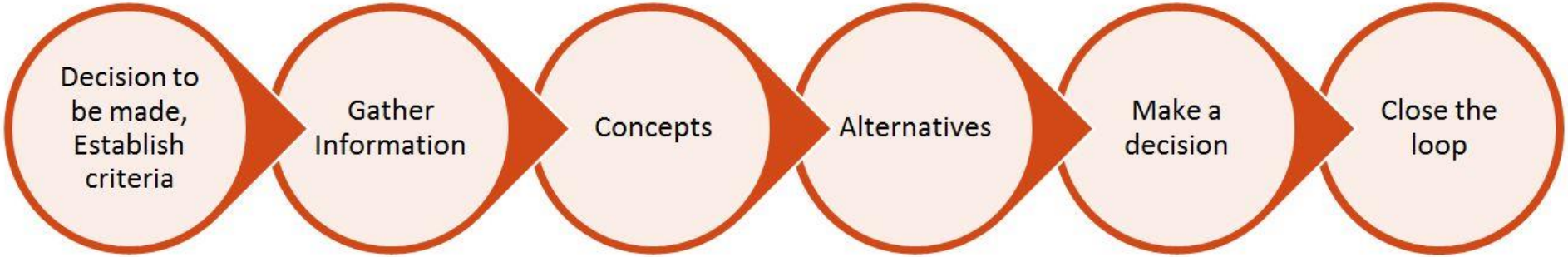

Public Promise: We will work with you to ensure that your concerns and aspirations are directly reflected in the alternatives developed and provide feedback on how public input influenced the decision.

Public Participation

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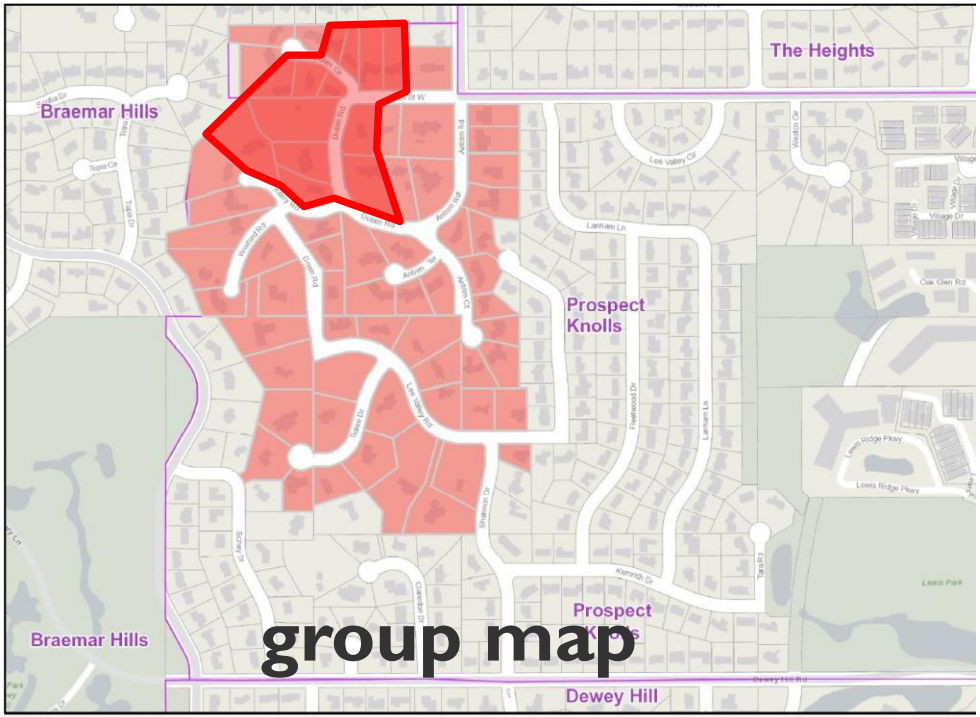
Stakeholder group 1: Immediately adjacent & those with a view, anyone from group 2 that self-selects in

Stakeholder group 2: Northwest part of Prospect Knolls neighborhood



Public Participation

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In-Scope

- Siding Material Type / Texture
- Siding Color
- Window Style
- Roof Style
- Roofing Material
- Landscaping

Not In-Scope

- Inside design
- Plant function
- Grades
- Structures
- Location
- Technical requirements

Public Participation

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Involvement steps, products, and schedule

- Seek input on site and initial concept (January-February)
- Create and share design concepts, gather feedback (February-March)
- Refine and share alternate options, gather feedback (March-April)
- Council to consider record of public participation and decide which design to move forward with (April-May)
- Contact participants to close the loop (April-May)

Public Participation Decision Check

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- Is this the appropriate level of engagement?
- Do you want to have any other groups or boards and commissions involved?
- Do you want to hold a public hearing at the point of decision, before moving to the next step?
- Are you comfortable with the process for engagement?

Water Treatment Scope

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- Facility design by AE2S Engineering

  Project Manager: Aaron Vollmer

Architecture Scope

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- Building design by Oertel Architects
  Lead: Thomas Stromsodt, Andrew Cooper
- Landscape design by Confluence
  Lead: Brad Aldrich

Design and bidding scope phases

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- Public participation and architectural design development $42K (study and report phase)
  - Decision gate – Decide architectural concept with public input
- Preliminary design phase $265K
  - Decision gate – Review preliminary design, make site land use decisions if needed, order final design
- Final design phase $635K
- Bidding phase $41K
  - Decision gate - Consider bid for award

Project Decision Check

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- Do you have enough information?
- Are you comfortable with the purpose and need?
- Are you still comfortable with your site selection decision?
- Are you comfortable with the phased design process and decision gates?
- Are you comfortable with the project team?