

PUBLIC INFORMATION MEETING, JULY 6, 2022

EAGLE HEIGHTS COMMUNITY CENTER



Madison Water Utility



Building a Better World
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Engineers | Architects | Planners | Scientists

Well 19 Treatment System Project

Madison Water Utility, Project Owner

Short Elliot Hendrickson (SEH), Consulting Engineer

PRESENTATION OVERVIEW:

- Introductions
- Well 19 Location & Background
- Project Need
- Project Objectives
- Conceptual Design Options
- Project Schedule
- Q & A and Public Input

LOCATION & BACKGROUND: WELL 19

The facility is situated on an easement on University of Wisconsin-Madison property



LOCATION & BACKGROUND: WELL 19

Constructed in 1974, it includes a well house and buried 3-million gallon reservoir



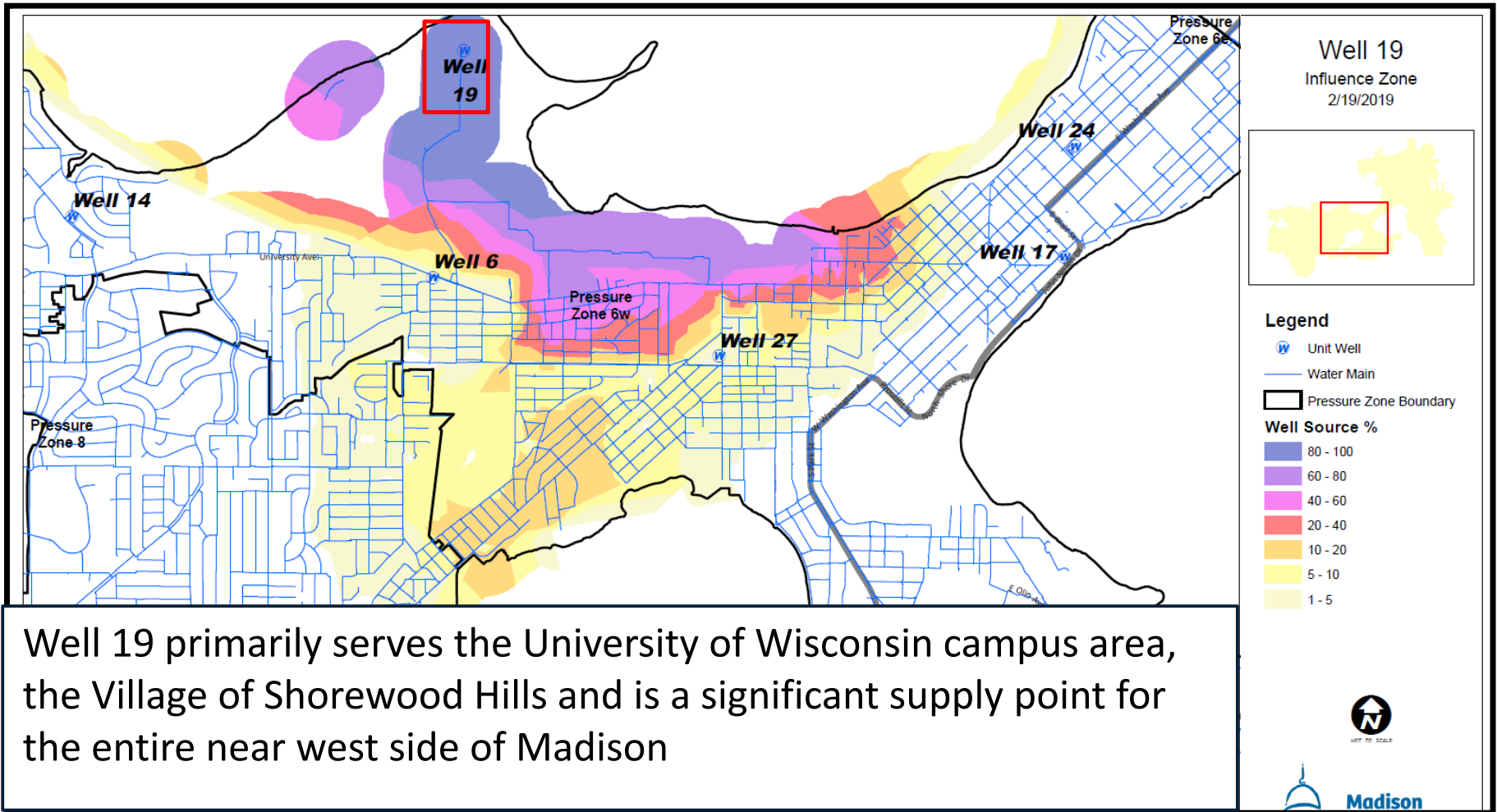
The buried reservoir: facing south



The well house: facing north



The well house entrance: facing west



PROJECT NEED / JUSTIFICATION

- There are three, naturally-occurring contaminants in Well 19's water
- At Water Utility Board Policy levels, action to mitigate contamination is required

Contaminant	Primary MCL (Enforceable)	Secondary MCL (Non-Enforceable)	Water Utility Board Policy	Well 19 Results
Radium	5 pCi/L	--	4 pCi/L	4.1 pCi/L*
Manganese	--	0.05 mg/L	0.02 mg/L	0.045 mg/L
Iron	--	0.3 mg/L	0.1 mg/L	0.2 mg/L

* Running Annual Average

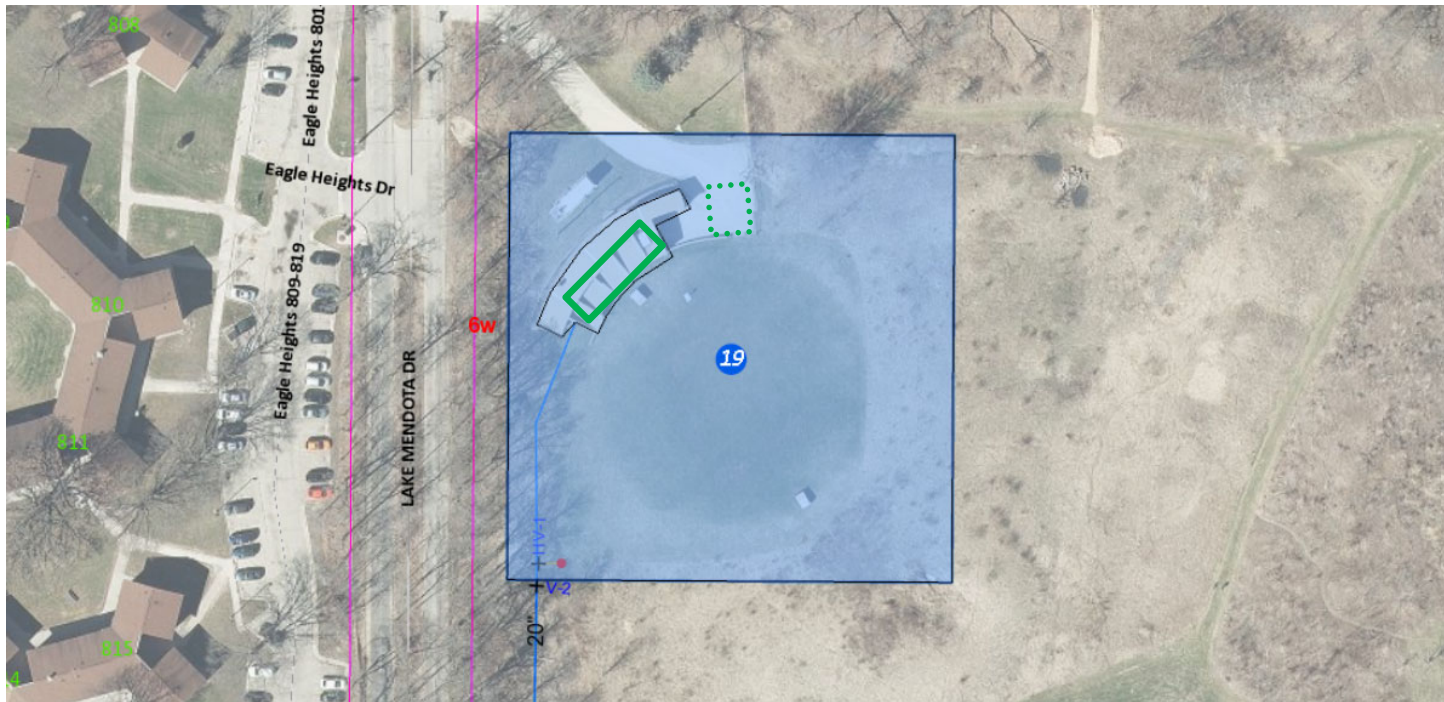
- Due to poor water quality the utility self-limits production— **currently only 30% of annual capacity, on average, is utilized**

PROJECT OBJECTIVES

1. **Reduce** iron, manganese, and radium levels at Well 19 through the addition of a filtration system
2. **Improve** water quality to optimize use of this critically important supply point
3. **Upgrade** the original pumps and electronic controls for more energy-efficient operations

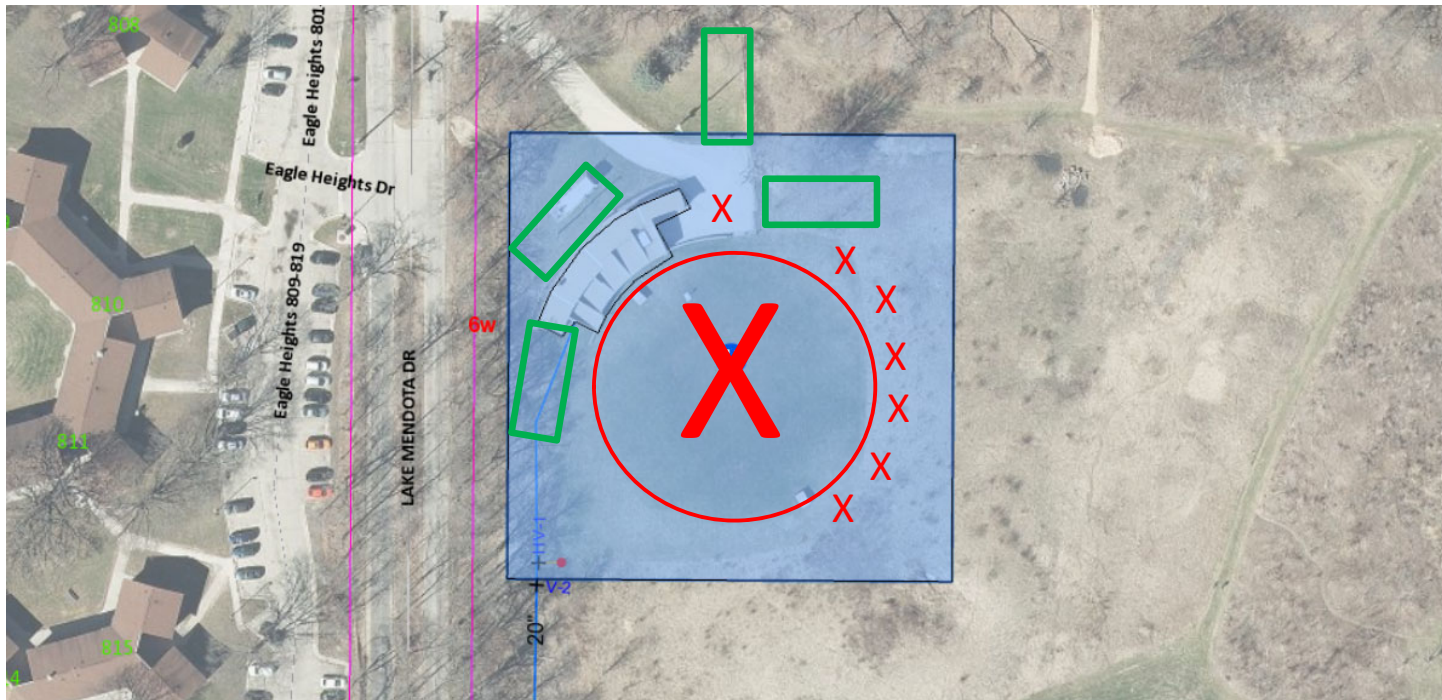
CONCEPTUAL DESIGN OPTION 1

Vertical expansion of existing building with external backwash (BW) tank



CONCEPTUAL DESIGN OPTION 2

New building or building addition with backwash tank



PROJECT SCHEDULE

- **Preliminary Design:** In progress; Public Information Meeting #1
- **Final Design:** Jul 2022 to Jan 2023; Public Information Meeting #2
- **Bidding & Construction Contract Award:** Feb 2023 to April 2023
- **Construction:** June 2023 to June 2024

STAY INFORMED – STAY UPDATED

Project Website: cityofmadison.com/water/projects/well-19-iron-manganese-radium-treatment

- Latest news
- Subscribe to receive project updates

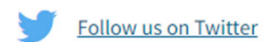
Social Media:



Contacts:

- Project Manager – Kelly Miess, kmiess@madisonwater.org
- General inquires – water@madisonwater.org, (608) 266-4641

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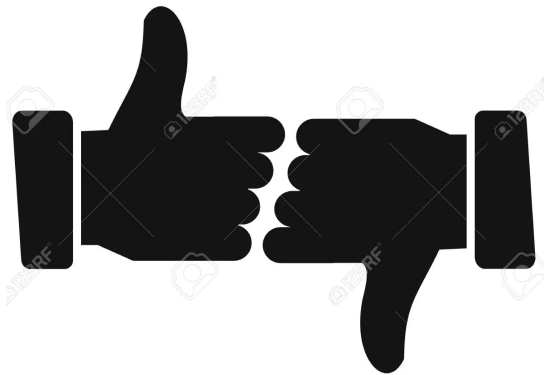
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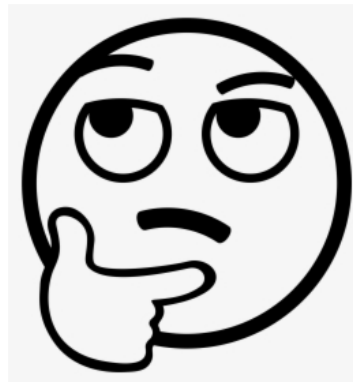
QUESTIONS?



Opinions?



Concerns?



Priorities?

