Water Systems Consolidation Project

- DEERFIELD PARK 1 - DEERFIELD PARK 2 -
- HAWLEY HILLS - MARVIN GARDENS -
Tonight’s Agenda

- Introduce Tonight’s Panelists
- How to Use Zoom
- Project Background
- Project Timeline
- Project Update & Meeting the Design Engineer
- Consolidation Project Advisory Committee
- Questions
John Weidenfeller
General Manager
Kim Gubbe
Director of Planning and Compliance
Jim Campbell
Director of Field Operations
Doug Piehl
Engineering Manager,
Northwest Water Systems, Inc.
Ruth Clemens
Administrative Services Manager, Moderator
Teal Reopelle
Planning and Compliance, Moderator
At the end of the presentation we will take questions.

- From a computer: click the “Raise Hand” button on your screen.
- From a phone: press *9 to Raise your hand

You will be called to speak in the following ways:

- From a computer: you will be called on using the name you enter before you entered the meeting.
- From a phone: you will be called on using the last four digits of the number from which you called.

Please state your name and the water system you live on (if you know it).
DEERFIELD PARK 1
DEERFIELD PARK 2
HAWELEY HILLS
MARVIN GARDENS

Consolidation Project
Why Consolidation?

- All four systems are already intertied
  - Interties are used during emergencies
- Inadequate storage and booster systems at each site resulting in low pressure events
- Outdated booster technology
- Aging infrastructure
  - $6.9 million forecasted replacements in next 18 years
- *New* 100% funded by grant
  - No impact to ratepayers—Free Money
Why Consolidation?

- Simplify management
- Increase reliability
  - Better service quality
  - Better pressure
  - Backup power generation
- Allowing pooling of system resources
Benefits

- Cost savings of $1.4 million over next 18 years
- Extended life of well assets
- Mainline looping
  - Better quality of water
  - Better water pressure
- Larger reservoir
  - Concrete tank
  - Increased storage to fit water usage needs
Consolidation Project Timeline

- **February 2020**: Project Introductory Meeting
- **June 2020**: Quarterly Update
- **July 2020**: Feasibility Study Conducted
- **August 2020**: Meeting with Communities
  - Water System Plan
  - SEPA & Cultural Review
- **October 2020**: Quarterly Letter
- **January 2021**: Quarterly Update
- **February 2021**: Tentative Outreach: Pre-Construction; Successful Bidder Selected
Current Well Locations

- One well located in each community, except two in Hawley Hills.
- Proposed looping (red) to reduce bottle necks and improve pressure during high demand.
Proposed Reservoir Placement Requirements:

- Sizable Easement in order to accommodate reservoir, booster station, and construction (laydown and stockpile areas)
  - Use existing easements, new lease or purchase, eminent domain
- Elevation
  - Higher elevation reduces booster size and energy consumption and may allow for emergency gravity flow
- Location relative to existing facilities
  - Mitigate long transmission lines and upsized distribution mains
  - Mitigate closing and cutting streets to install new mains
- Access
  - Limit need for access road construction
- Aesthetics and Community Values
  - Minimize aesthetic impact to community (location, screening, reservoir height)
  - Minimize construction disturbance (reservoir construction, road closure for new mains)
Proposed Reservoir Location: Hawley Hills

- All sites and extending easements were looked at, but Hawley Hills met all requirements:
  - Existing easement is of sufficient size
  - Locally highest elevation,
  - Two high-output wells are located in the existing easement
    - Transmission lines from other wells beneficial but not necessary.
    - Mainline up-sizing to accommodate high flow rate limited.
    - Reduces/eliminates road closures within the community (possible impacts to Marvin Rd due to looping)
    - Best water quality
  - Accessible via existing easement access
  - Must mitigate visual impacts
Existing well locations impact reservoir placement.

Other locations within the easement currently infeasible due to inability to extend or obtain easement.

Reservoir is 30' diameter, however foundation and foundation prep/grading extends beyond this.

Recommended location is the only location (currently) available in Hawley hills.
Visibility Considerations

- Base recessed into ground as possible to limit above grade height to approximately 20 feet (shorter than surrounding homes).
- Stain dark green (proposed).
- Fast growing privacy plantings on street and private residence sides.
Preliminary Proposed Landscaping

- Privacy plantings of fast-growing evergreens with a minimum mature height of 25'.
- Project will include a stormwater management or landscaping plan directing soil protection, restoration and amendment, planting, and irrigation requirements.
Secondary Proposed Location
Consolidation Project
Advisory Committee
Consolidation Project Advisory Committee

- Volunteer group comprised of customers from the consolidating water systems
- Group will meet for the purpose of the consolidation project only
- Topics can include
  - Reservoir color
  - Vegetation selection
  - Water System Re-naming
  - Security
How to Join the CPAC

- Contact Kim Gubbe, Director of Planning and Compliance
  - 360-357-8783 ext. 125
  - kgubbe@thurstonpud.org
Questions