Our Mission:

The mission of the Board and Water Committee is to provide both short and long-term solutions to an aged water system that will secure safe, reliable water for generations. We intend to make well informed decisions, based on all available information, for a comprehensive water system master plan.

Our Goals:

- To provide safe, clean, reliable water to all users
- To deliver timely results
- To reduce the complexity of the system
- To maximize all funding opportunities
- To reduce risks for the future water system

Our Objectives:

- To be proactive
- To be fiscally responsible
- To increase operational efficiencies
Why Invest in Infrastructure?

1. Quality of Life.
2. Economic Development.
4. Trust in your Community.
NYSDOH Updates

1. Project urgency and DOH support
2. Lead action level exceedance and tracking
3. Source water monitoring
4. Funding commitment
Dedicated Well Transmission Main

What is a Dedicated Well Transmission Main?
• Direct link from the Well Site → WTP
• 12,000 linear feet
• 16-inch diameter
• Will be utilized by MVWA as a connection point to transport water to clearwell before distribution

 ✓ No interruptions to water system as there are no connections within the Village

 ✓ Well water will be blended with surface water as needed (additional treatment at WTP if needed)
Water Distribution System Improvement Options

1. Russell Park Tank Improvements
2. 4” Water Main Replacement
3. Looping/Dead-End Improvements
4. Valve Replacements (50%)
5. Replace Village Water Meters
6. Replace ~25% of Village Water Services (Lead and/or Leaking)

Total Construction Costs: $19,000,000 (2022 dollars)
Looping and Dead-ends
Distribution Improvements Plan

3 phases of Distribution Improvements  (Split for funding strategy reasons....)

**Phase #1 Priorities**  (Authorized in August 2019)
- 4,000+ feet of looping current dead-ends
- ~100 gate valves to be replaced
- 300 water services
- More than 1 mile of 4-inch replacement with new 8-inch pipe
- New elevated tank in Russell Park  (possible replacement of existing?)

**Phase #2 Priorities**  (Anticipated to be Authorized in early 2020)
- 7,000+ feet of looping current dead-ends
- ~100 gate valves to be replaced
- Almost 4 miles of 4-inch replacement with new 8-inch pipe

**Phase #3 Priorities**  (to be determined based on funding)
- 20,000+ feet 4-inch replacement with new 8-inch pipe
Source Water Sampling Results (June thru October)

1. So what does everyone think quality was for this summer???

2. Sampling results confirm that the aerators are working to keep the reservoir from going anoxic
   1. No appreciable change in water quality throughout hot months
   2. Operators worked tirelessly to keep ahead of any event

3. Effects of iron sequestering at well site is very effective, but still can be improvement  
   (0.44 mg/l raw 0.15 mg/l treated...or ½ the MCL of 0.3 mg/l)
Lead Sampling Results (June thru October)

- 40 sites tested this summer by Bruce
- Summer Lead testing showed 90th percentile dropped to 6ppb (vs. 16ppb in 2018)
  - This means the corrosion control chemistry is working better
  - Long way to go with an ultimate goal of lead service replacement and private plumbing improvements
- Free testing program through NYSDOH (take advantage!!)
- Sampling will resume again this Fall by the Village
  - Please, please volunteer your home for sampling
What is the future operations

✓ MVWA will be the primary source
  • Clearwell will be primary feed for MVWA
  • All water will use the new Village T-main
  • Any additional treatment will be conducted at clearwell

✓ Wells will be a back-up emergency source

✓ Village will initially be a customer of MVWA with them as a partner in instances where additional support is required
Eastern Mohawk Valley Regional Transmission Main
## Collaboration and Teamwork

<table>
<thead>
<tr>
<th>Project</th>
<th>Project Cost</th>
<th>EDU</th>
<th>User Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Eastern Mohawk Valley Regional Transmission Main (All 5 Muni’s)</td>
<td>$24,000,000</td>
<td>7,515</td>
<td>$106/yr</td>
</tr>
<tr>
<td>2. Village of Ilion distribution system improvements</td>
<td>$17,200,000</td>
<td>3,425</td>
<td></td>
</tr>
<tr>
<td>3. Village of Frankfort distribution system improvements</td>
<td>$8,410,000</td>
<td>893</td>
<td></td>
</tr>
<tr>
<td>4. Village of Herkimer distribution system improvements</td>
<td>TBD</td>
<td>2800</td>
<td></td>
</tr>
<tr>
<td>5. Town of Schuyler new distribution system</td>
<td>$6,969,000</td>
<td>336.5</td>
<td></td>
</tr>
<tr>
<td>6. Town of Herkimer new distribution system</td>
<td>$1,786,000</td>
<td>60.5</td>
<td></td>
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</tbody>
</table>

**Project Totals = $58,000,000+**
Mohawk Valley Water Authority (MVWA)

1. Water Quantity Facts:
   - Permit and Treatment Plant capacity = 32 MGD
   - Permit and Treatment Plant capacity can be expanded to 48.5 MGD
   - Current system usage averages 20 MGD;
   - 40% excess capacity

2. Experienced Staff with the needed expertise:
   - Water Quality and
   - Water Treatment
   - Engineering Services
   - Infrastructure Maintenance

3. MVWA is a full-fledged construction company
   - 5 maintenance crews
   - more than 60 pieces of trucks and equipment
Capital Improvement Project

Source Projects

Distribution Projects

Water Improvement Program
Funding Outlook...

Distribution $19,000,000 + Source $24,000,000 = Water Program $43,000,000

Distribution $17,000,000 + Source $11,000,000 = Water Program $28,000,000
<table>
<thead>
<tr>
<th>Project Description</th>
<th>Funding Locks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Site T-Main and Phase 1 Distribution Improvements</td>
<td>$3,000,000 DWSRF Grant, 0% financing for 30 year loan, $75 per household</td>
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<tr>
<td>Estimated at $10,200,000</td>
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</tr>
<tr>
<td>Region T- Main and Phase 2 Distribution Improvements</td>
<td>$3,000,000 MRF Grant, 0% financing for 30 years (assuming), $195 per household</td>
</tr>
<tr>
<td>Estimated at $17,800,000</td>
<td></td>
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</tbody>
</table>
The following communities will be serviced:

• Town of Schuyler
• Village of Frankfort
• Village of Ilion
• Village of Herkimer
• Town of Herkimer

*All serviced communities are along the Erie Canal Corridor
The Municipal Restructuring Fund utilizes the following four-stage application submission and funding process:

- **Phase 1 - Project Charter:**
  - No state funding provided

- **Phase 2 – Project Development:**
  - Up to 5% of eligible funding, with a maximum of $50,000

- **Phase 3 – Small-Scale Implementation:**
  - Up to 35% of eligible funding

- **Phase 4 – Full-Scale Implementation:**
  - 60% of eligible funding, or remaining unallocated funding
Phase 1 – Project Charter

• Provides initial project framework
  • Includes scope, scale, and financial impact

• Project Charter must receive a minimum score of 30 out of 50 points to be eligible for MRF funding
  • This project received a score of 42 points
Phase 2 – Project Development

• IDA required to develop a project plan that establishes project management processes and identifies smaller pilot projects for completion and assessment under phase 3.

• Initiative must receive a score of 18 out of 20 under phase 2 to be recommended for implementation assistance under phase 3.

• After review, the project plan was given a score of 18.5, and Phase 3 was approved.
Phase 3 – Small-Scale Implementation &
Phase 4 – Full-Scale Implementation

• Phase 3 approved for $1,085,875

• Funding is equal to 35% of current estimated project cost of $3,102,500

• Remaining funding for Phase 4 would be made available upon successful completion of Phase 3
Funding Steps...

• **Future User Costs**
  • Annual O&M increase ~$200-300/year
  • Annual Debt Payment increase ~$266/year

• **Goal is $20,000,000 in Grants**
  ➢ Currently $6,000,000 in grant funding
  ➢ Additional $12,000,000 in grant through 4 other municipalities

• **Critical Funding Strategy Dates/Milestones:**
  ✓ DWSRF Hardship Deadline: March 2019
  ✓ 2019 CFA: late July 2019
  ✓ Round 5 WIG: ~late August 2019
Typical Project Lifecycle

- Community Vision
- We Need Help
- Feasibility Study/Investigations
- PER
- Funding
- Design
- Construction
- Start-Up/Operations

3 to 6 Years
Timeline for Process

Agreement Discussions with MVWA Board

- Ongoing Communications
- Formalize Request for Partnership...ASAP

SEQR

- Full Environmental Assessment (3 months)
- Negative Declaration (1 months)

Bonding/Funding

- WIG summer 2019
- CFA summer 2019

Design/Bid/Construction

- Design ~2019→2020
- Construction ~2020→2022
The experience to listen
The power to solve™

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