



Water and Wastewater Infrastructure

Workshop #1

February 13, 2023

F R E E S E A N D N I C H O L S

Agenda

- Introductions
- Workshop Objectives
- Background
- Program Overview
- Project Team
- TWDB Project Selection
- CIP and Operational Efficiencies
- Financial Benchmark Comparison
- Group Discussion
- Path Forward

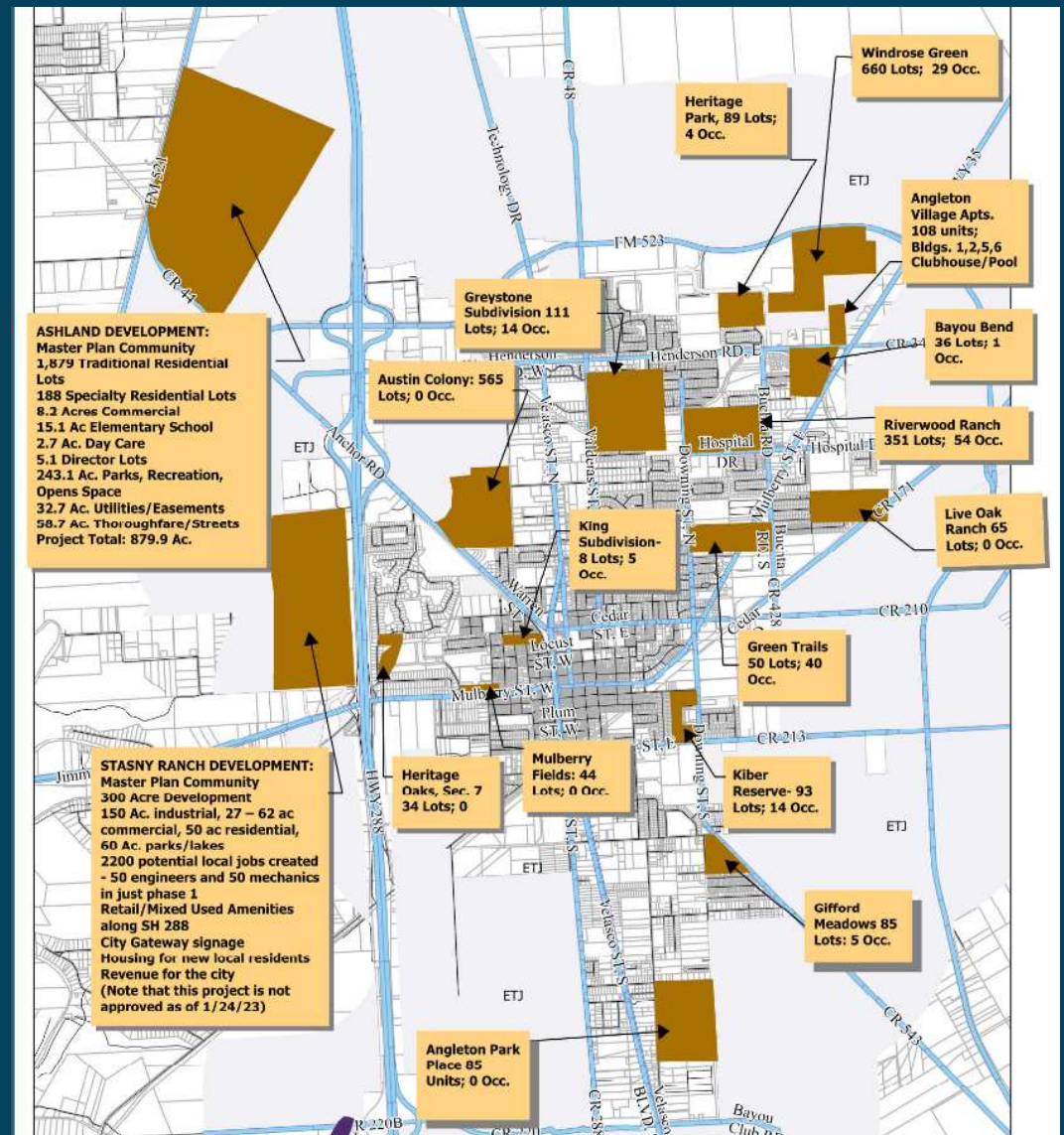
Workshop Objectives

1. Finalize TWDB list of projects to submit via Project Information Forms (PIFs) by March 3, 2023
2. Align strategy around City Council requirements for project selection and funding

Background

- The City is projected to grow by 4,616 new households (11,586 residents) over the next 10-20 years:
 - Includes success of two large scale developments (Stasny Ranch and Ashland)
- Historically, the debt issued for Water and Sewer has been a combination of tax and Utility revenue
- Currently, the Water and Sewer payments are transferred from the Water fund to the Debt Service Fund
- The City currently issues debt on a 20-year term
- The City is currently addressing aging water/wastewater infrastructure for current capacity

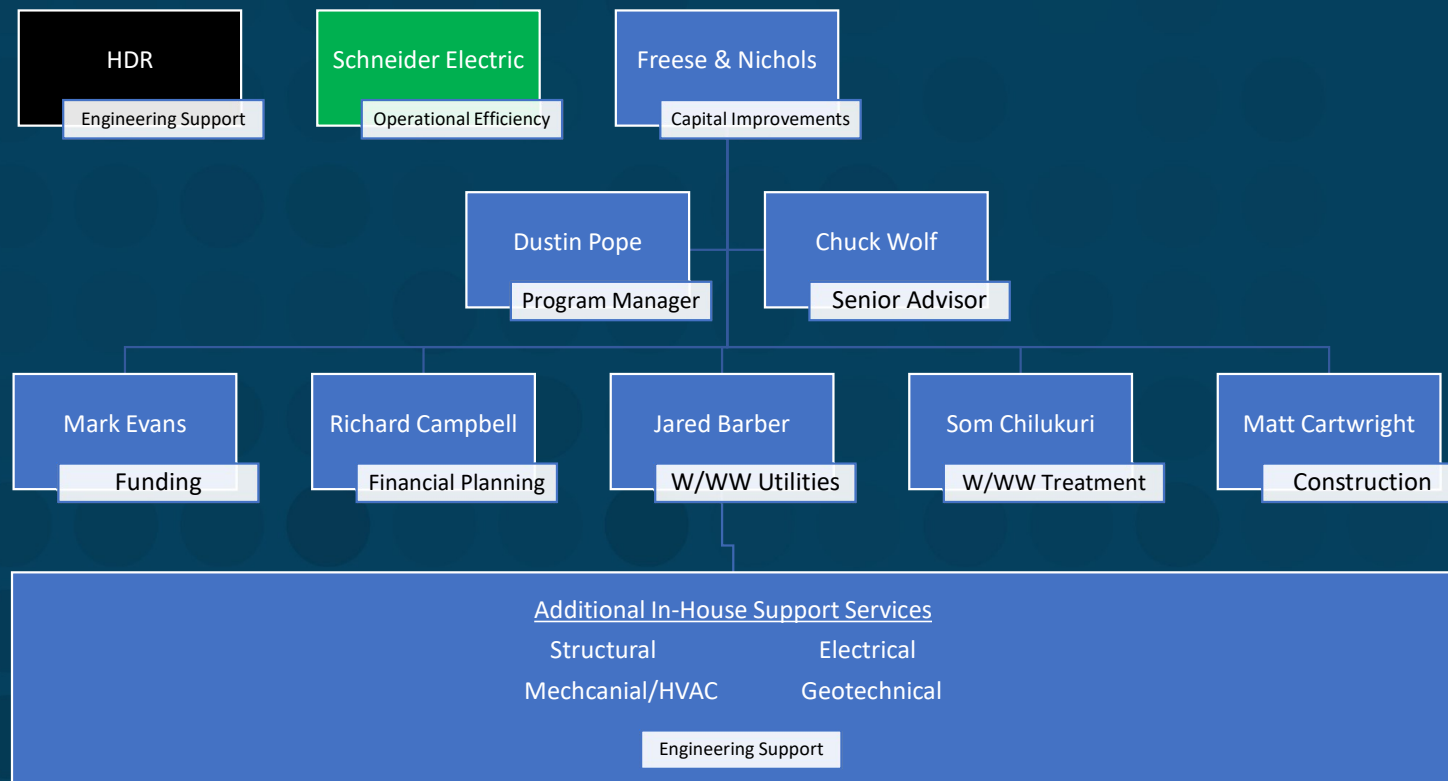
New Development



Program Overview

- HDR finalized the prioritized Capital Improvement Plan (CIP)
- Schneider Electric reviewing Operational Energy Savings across the City
- Phase 1: FNI assisting the City with Grant and Funding
 - Pre-Application
 - Application (TWDB)
 - Post Application
- Phase 2: Design and Bid Phase Services
- Phase 3: Construction Phase Services

Project Team



TWDB Project Information Forms (PIFs) Selection

1.	Oyster Creek WWTP Rehabilitation	\$20.6M
2.	Sanitary Sewer Rehab Project	\$5M
3.	Waterline Replacement Project	\$5M
4.	Henderson Transmission Line	\$3.7M
A.	Chenango Booster Pump Building & Disinfection Room	
5.	Lift Station Rehabilitation Package	\$2.03M
1.	LS #7:	\$887k
2.	LS #9:	\$240k
3.	LS #5:	\$250k
4.	LS #15:	\$330k
5.	<u>LS #24:</u>	<u>\$320k</u>
TOTAL:		\$36.33M

Package Example

Capital Improvement Plan*

- Oyster Creek WWTP: \$20.6M
 - Influent LS
 - MCC Building
 - Operator Building
 - Site Lighting
 - Water Reclamation
 - Stormwater Pump Station/Outfall Repair
 - Secondary Treatment – Package 1
 - Blower Building and Aeration
 - Influent Collection Gravity System
- Henderson Transmission Line: \$2.1M
- SS Rehab (19k of 271k LF): \$5M
- WL Replacement (24k of 443k LF): \$5M

TOTAL: \$32.7M

*All numbers to be updated for order of magnitude

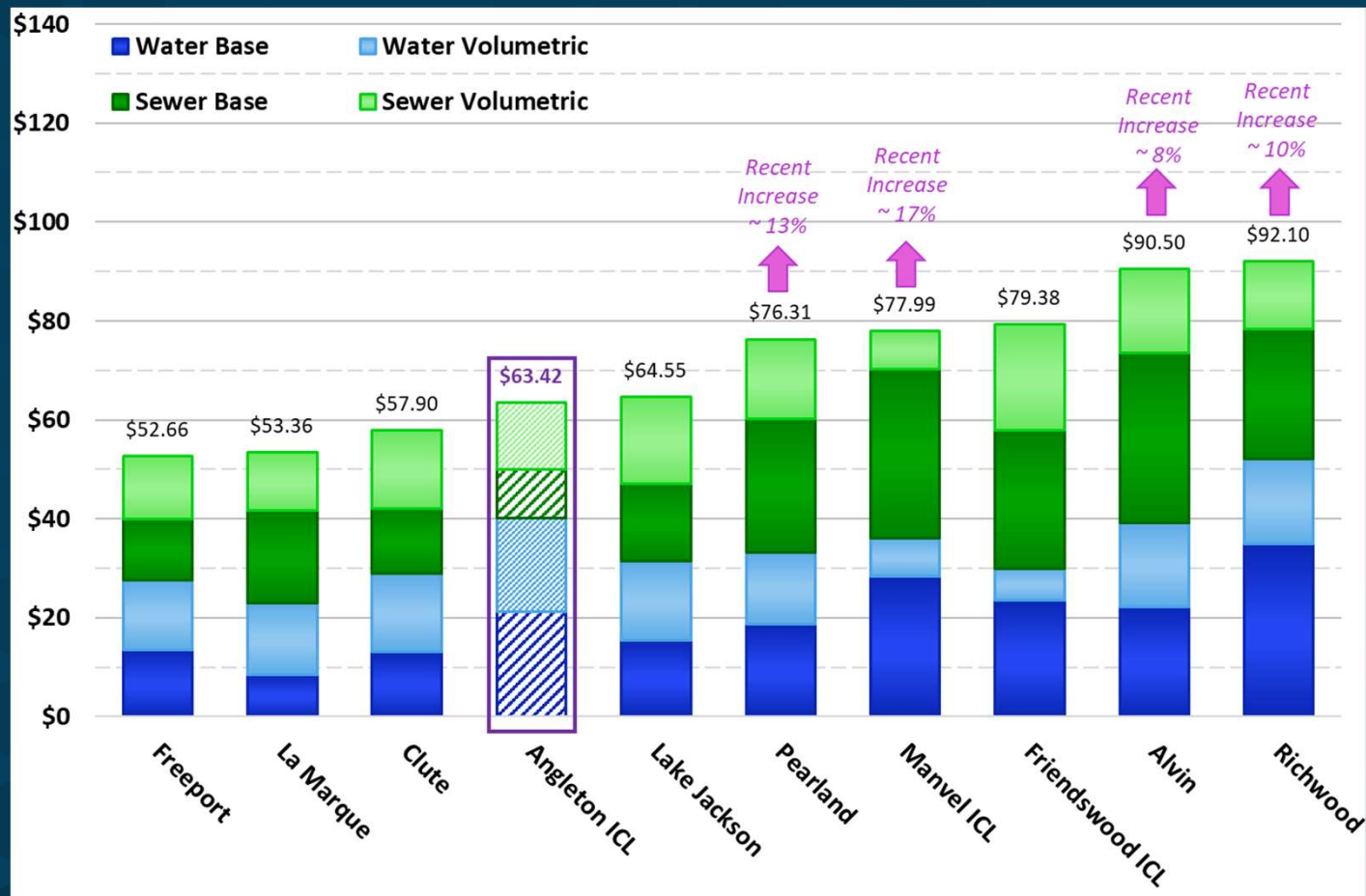
Operational Efficiency Savings

- Aeration Blowers Bldg Improvement
- Aeration Basins and Process Improvement
- Plant Water Re-Use
- Sludge De-Watering Facility
- Chlorine Contact Chambers Re-Configuration
- Aerobic Digesters Treatment Improvement

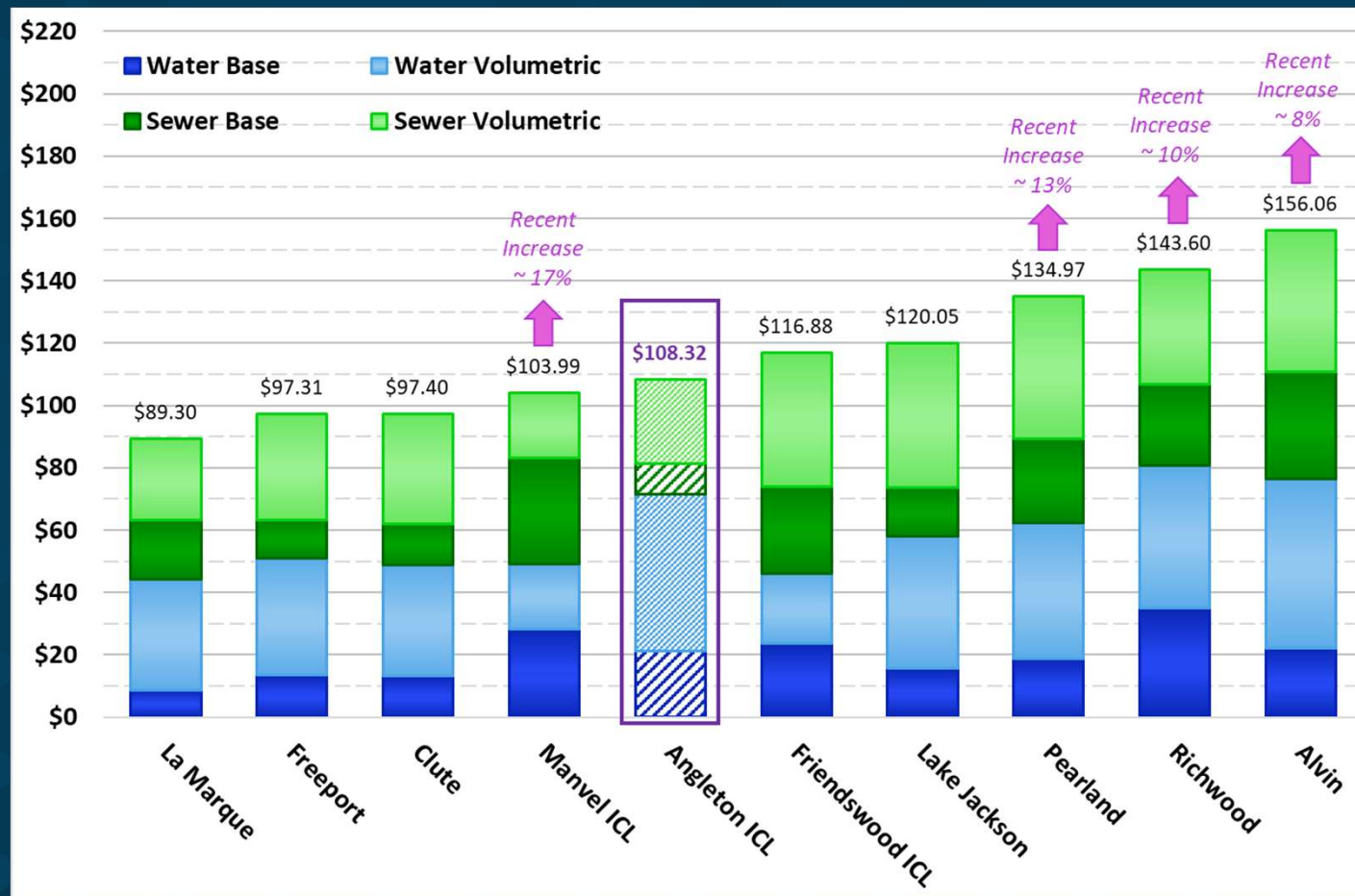
TOTAL: (\$3M - \$5M)

\$29.7M - \$31.7M

Benchmark Rate Comparison (5,000 gal/month)



Benchmark Rate Comparison (10,000 gal/month)



Discussion

TWDB Project Information Forms (PIFs) Selection

1.	Oyster Creek WWTP Rehabilitation	\$20.6M
2.	Sanitary Sewer Rehab Project	\$5M
3.	Waterline Replacement Project	\$5M
4.	Henderson Transmission Line	\$3.7M
A.	Chenango Booster Pump Building & Disinfection Room	
5.	Lift Station Rehabilitation Package	\$2.03M
1.	LS #7:	\$887k
2.	LS #9:	\$240k
3.	LS #5:	\$250k
4.	LS #15:	\$330k
5.	<u>LS #24:</u>	<u>\$320k</u>
TOTAL:		\$36.33M

Next Steps

1

Prepare and submit PIFs to TWDB by March 3, 2023

2

Update project costs for order of magnitude

3

Update rate analysis for updated project costs

4

Workshop #2 to discuss project selection strategy



DISCUSSION

