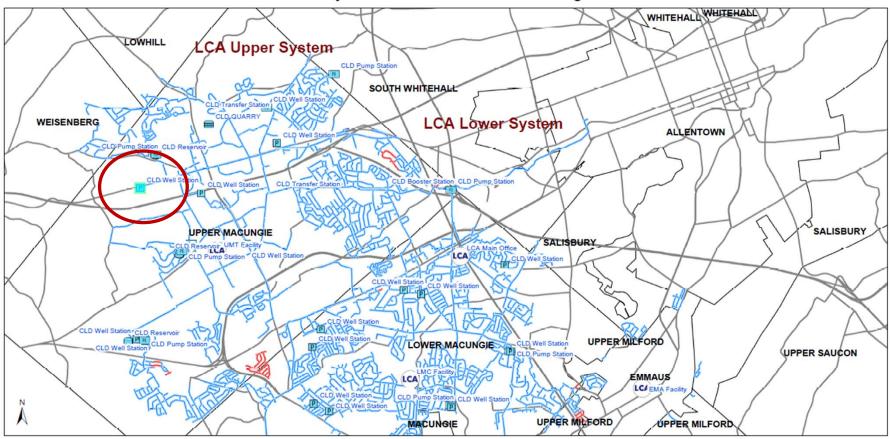
Lehigh County Authority

New Industrial Water Customer

Readington Farms – 8550 Main Street, Fogelsville

LCA Board of Directors Review – June 28, 2021

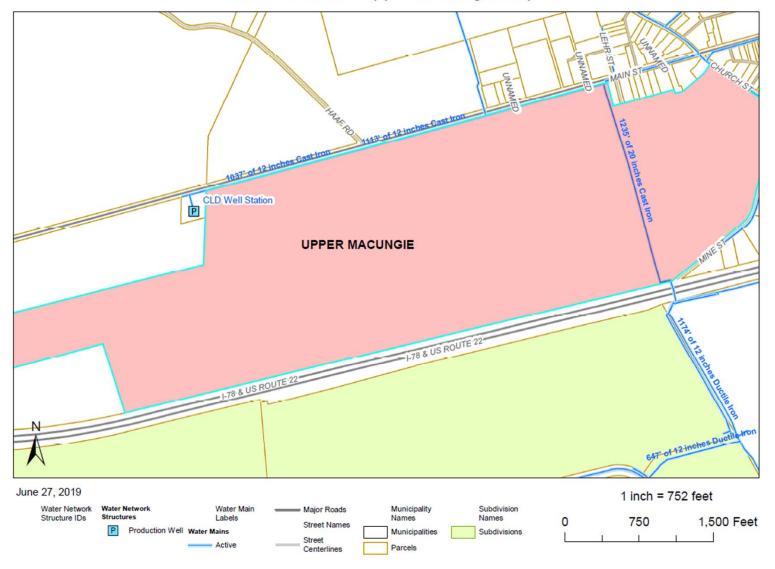


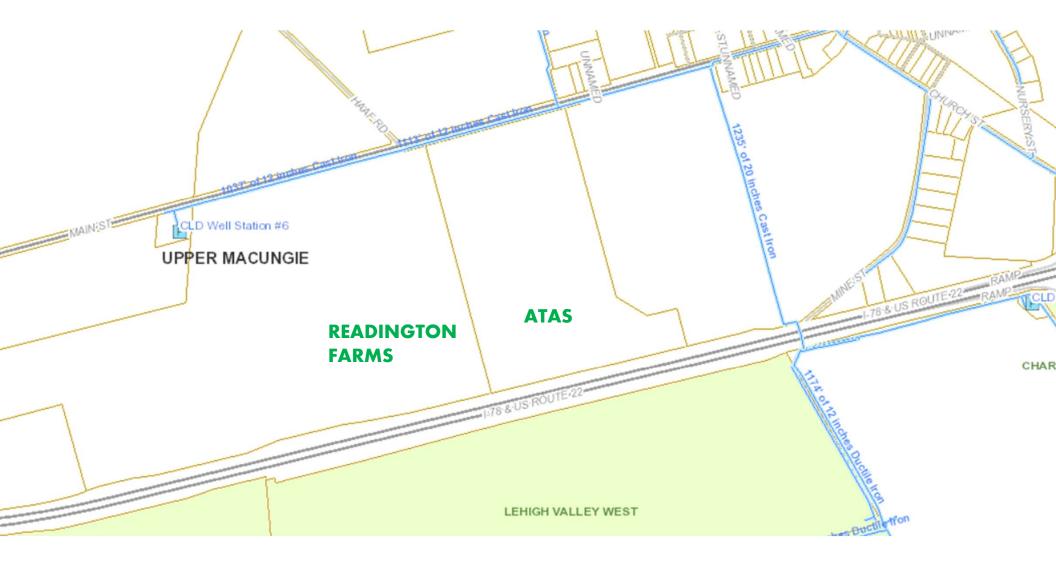
LCA Water System Network - Central Lehigh Division

July 10, 2019

1:72,224

Site Location - Upper Macungie Twp



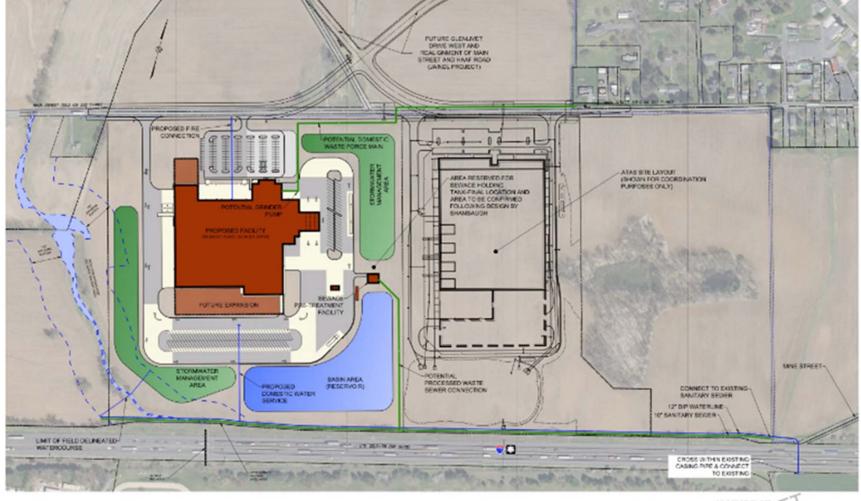




UPHRMACING TOPPER AND SANIFARY (COORDINATIO)

THE PIDCOCK COMPANY

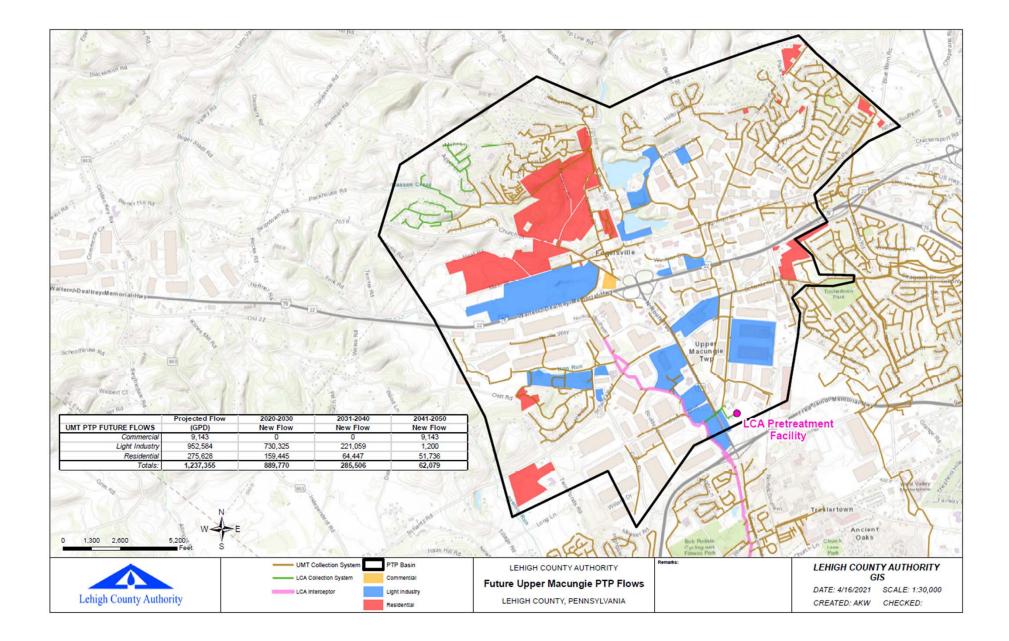
PROJECT ELSIE ET



Water & Sewer Requirements: *Readington Farms*

Dairy processing facility:

- Water (LCA)
 - 350,000 gallons per day average
 - 500,000 gallons per day peak week (1 week/year)
 - 335 gallons per minute production rate
 - 55 psi minimum residual pressure
- Sewer (Upper Macungie Township)
 - 250,000 gallons per day
 - BOD: 3000 milligrams per liter (requires pretreatment)
 - Notes:
 - Sewer will flow through Upper Macungie Township
 - Included in Township's 2021-2025 Connection Management Plan / Interim Act 537 Plan



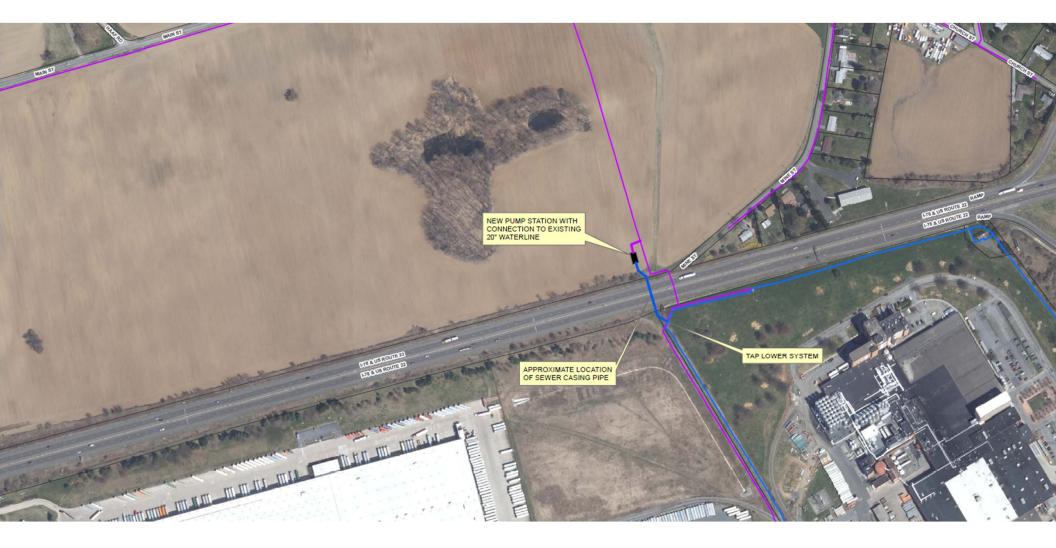
"Upper System" Planning

- Readington Farms 350,000 gallons per day
- Additional future development 350,000 gallons per day (estimated)
- Other industrial needs unknown
- Upper System Challenges:
 - Reliance on 2 groundwater wells
 - Lower System will not provide adequate pressure in this location
 - Existing CLD pump station does not provide redundant capacity in event of main break

CLD Short-Term Future MDD Steady State - Pressure

LCA Water System Hydraulic Model Results





Cost-Sharing / Developer Contribution Concept

- Readington Farms pays full cost of I-78 crossing and main extension
- Readington Farms pays proportionate share of pump station cost based on facility requirements
 - 335 gallons per minute = 33.5% of pump station capacity (1000 gallons per minute)
- Future growth pays via tapping fees for remaining pump station capacity

WATER PRESSURE BOOSTER PUMP STATION & MAIN EXTENSION COST SHARING

DEVELOPMENT: Readington Farms Dairy

Upper Macungie Township, Lehigh County, PA

Description	Total	Developer Obligation	Developer Obligation	LCA Obligation	LCA Obligation
	Estimated				
	Value	%	Value	%	Value
Pumping station:					
Pumping station (contracts, misc. costs)	\$ 1,084,000	33.50%	\$363,140	66.50%	\$720,86
Engineering services & staff	\$ 235,000	33.50%	\$78,725	66.50%	\$156,27
Contingency (15%)	\$ 197,850	33.50%	\$66,280	66.50%	\$131,57
Waterline:					
20" x 12" Tap (1)	\$ 18,000	100%	\$18,000		
12" DIP (500')	\$ 65,000	100%	\$65,000		
12" x 12" Tap (1)	\$ 12,000	100%	\$12,000		
I-78 Casing Pipe Improvement (24" PVC pipe, grout)	\$ 50,000	100%	\$50,000		
Contingency (15%)	\$ 21,750	100%	\$21,750		

Total Obligations	\$1,683,600	\$674,895	\$1,008,705

Financial Review (Assuming No Growth)

LCA Contribution	\$ 1,008,705
Readington Farms Contribution	\$ 674,895
Total Project Cost	\$ 1,683,600
Estimated Annual O&M Cost	\$ 149,021
Estimated Annual Water Revenue	\$ 286,120
Discount Rate Applied (WACC)	1.561%
Net Present Value	\$ 1,647,634
Payback Period	7.1 Years

Next Steps:

- Compare LCA project to Readington Farms construction schedule
- Prepare developer contribution agreement / water system agreement including cost-sharing concepts
 - Board approval required due to non-standard arrangement
- Secure necessary easements and permits
- Design & construct

Discussion?