



AGENDA
CITY OF CEDAR FALLS, IOWA
CITY COUNCIL WORK SESSION
MONDAY, MAY 06, 2019
5:00 PM AT CITY HALL-DUKE YOUNG ROOM

1. Call to Order by the Mayor.
- [2.](#) Wastewater Regionalization.
3. Adjournment.

Waste Water Regionalization

Areawide Comprehensive Sanitary Sewer Study Update for the
Metropolitan Area of Black Hawk County, IA

February 2019

5/6/19 Work Session

Areawide Sanitary Sewer Update

- 1973 Study reviewed & updated
- Regional system can be done
- Waterloo Wastewater Treatment Facility has capacity
- Recommendations:
 - Additional/detailed analysis of costs
 - Condition assessment of Intercity Interceptor
 - Structure for management of regional system

Areawide Sanitary Sewer Update

Cost Estimates

Community	Individual Cost	Regionalization Cost	
Waterloo	\$101,160,000	\$65,754,000	
Cedar Falls	\$76,500,000	\$50,000,000	
Hudson	?	\$8,212,000	+ \$35,406,000
Evansdale, Elk Run, Raymond	?	\$21,130,000	

Cedar Falls Options

Options	Estimated Cost ¹
1. Connect to Regional system	\$50,006,975
2. Remain independent	
a. Invest/upgrade our current plant	\$76,500,000
b. Relocate our plant	\$300M - \$500M

¹ Preliminary information, costs may change as additional studies provide further analysis & cost detail.

Cedar Falls Plant Today

- Original plant: 1939
- Major upgrades/expansions: 1952, 1962, 1985
- 2014: UV Disinfection
- Asset value is difficult to determine

Cedar Falls Future Needs: Plant

	Priority	Date Planned	Estimated Cost
Third Stage Trickling Filter	High	FY19	\$150,000
Digester Rehabilitation	Med.	FY20-21	\$10,000,000
Nutrient Removal	Low	FY24?	\$66,000,000
Intermediate Clarifier Rehabilitation	Low	FY30+/-	\$2,500,000
Odor Control	Low	-	\$750,000
Wetland	Low	-	\$3,000,000

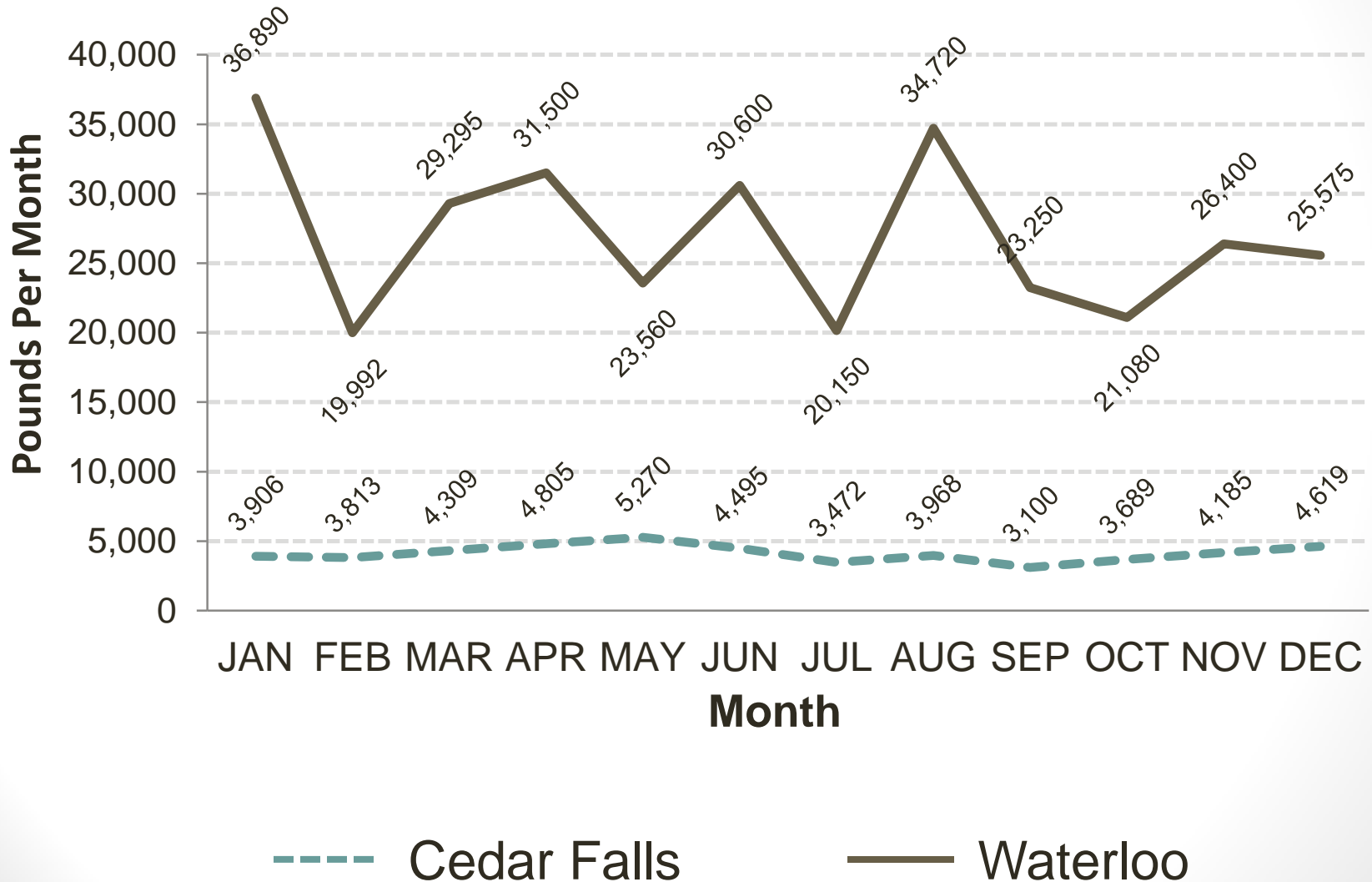
Cedar Falls Future Needs: Collection System

	Priority	Date Planned	Estimated Cost
Sliplining (I&I reduction)	High	On-going	\$200,000/yr
Flow testing (I&I red.)	High	On-going	\$25,000/yr
Spot repairs	High	On-going	\$30,000/yr
Expansion studies	High	5-6 yrs	\$200,000/yr
Expansion construction	Med	On-going	?

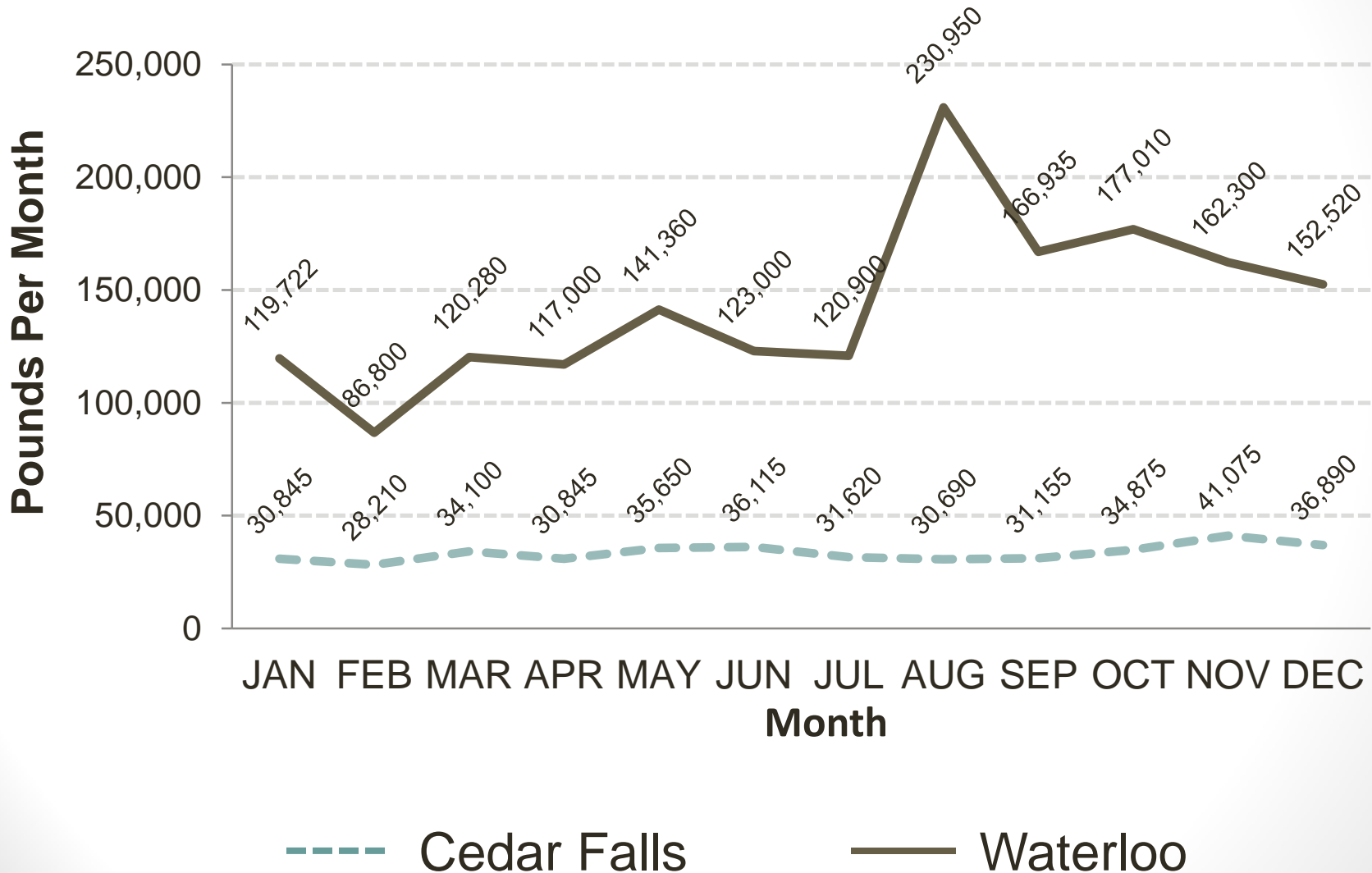
Our Regionalization Questions

- Condition of the Inter-City Interceptor
- Dependence on a single line to regional plant
- Combined sewers in other communities
- Surcharging
- Regional plant ownership & governance
- Nutrient removal
- Provisions for expansion

2018 Nutrient Loadings: Phosphorus

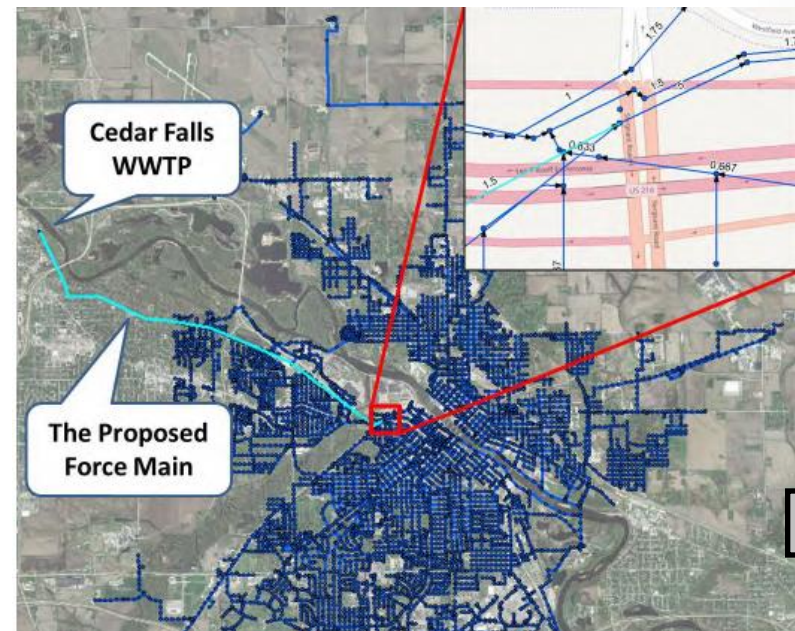


2018 Nutrient Loadings: Nitrogen



Our Regionalization Costs

- Study: \$50M of cost to Cedar Falls
- Additional costs yet to be identified:
 - Asset “buy out” of the Waterloo plant → regional plant
 - Future improvements of the plant
 - Operation & maintenance costs of the plant
- Collection system split



Discussion & Questions