



PUBLIC INPUT MEETING
Wastewater Stabilization Ponds Proposed Improvements

PUBLIC INPUT MEETING | 11.9.17

Please Provide Feedback by November 16, 2017

Need for Improvements

- City unable to properly operate current system
- Not enough storage available for projected 20 year population
- Aesthetics of lagoon near residential area, park property, and new school

Proposed Alternatives

- Alternative 1 - Stabilization Pond Expansion
 - Advantages
 - Treatment process is the same
 - Uses city owned land
 - Efficient when properly operated
 - Low operation and maintenance cost
 - Disadvantages
 - Limited to design population
 - Nuisance odors in the spring and fall
 - Requires use of large amounts of land within city
- Alternative 2 - Stabilization Pond Expansion and Relocation
 - Advantages
 - Efficient when properly operated
 - Low operation and maintenance cost
 - System can be easily expanded
 - City can remove their existing ponds
 - Disadvantages
 - Requires large amount of agricultural land to be purchased
 - High initial cost
 - Nuisance odors produced in spring and fall

- Alternative 3 - Fargo Connection
 - Advantages
 - City not responsible for their own treatment
 - City can remove most of their ponds and repurpose the land
 - Disadvantages
 - City will have to pay user rates to City of Fargo, Tharaldson Ethanol Plant, and Cass rural water
 - City would only be able to use the pipeline when it is not in use by Tharaldson Ethanol
 - Will require a large wet well or storage pond for daily flow
 - Greater long term cost
- Alternative 4 - West Fargo Connection
 - Advantages
 - City is not responsible for their own treatment
 - System can be easily configured for increased capacity
 - City will be able to remove most of their existing ponds and repurpose the land
 - Disadvantages
 - City will not have control over their user rates
 - High initial cost
 - Responsible for paying user charges to City of West Fargo

Capital Cost

Preliminary Engineer's Opinion of Probable Cost – Total Project	
Alternative	Total Estimated Cost
Alternative 1 - Stabilization Pond Expansion	\$3,205,000
Alternative 2 - Stabilization Pond Expansion and Relocation	\$7,050,000
Alternative 3 - Fargo Connection	\$3,820,000
Alternative 4 - West Fargo Connection	\$4,330,000
Alternative 5 - Stabilization Pond Rehabilitation*	\$1,140,000

*It is assume the revenue from selling the land may offset the cost of the Stabilization Pond Rehabilitation

User Rates

Average Sewer Monthly User Rate Per Equivalent Dwelling Unit (EDU)		
Alternative	20 Year Loan	30 Year Loan
Alternative 1 - Stabilization Pond Expansion	\$51	\$38
Alternative 2 - Stabilization Pond Expansion and Relocation	\$109	\$80
Alternative 3 - Fargo Connection	\$82	\$67
Alternative 4 - West Fargo Connection	\$83	\$66

Funding

- Project funded through Clean Water State Revolving Fund (CWSRF) with 2% loan
- Possibility of grant money through USACE Section 594
- Possible State money for regionalization, but need to convince state leaders