

**AGENDA ITEM EXECUTIVE SUMMARY**

Agenda Item number: 3.d

Title:

Phosphorus Removal and Digester Improvements Project
Update – Information only

Presenter:

Tim Wilson

Meeting: Government Services Committee

Date: November 26, 2018

Proposed Cost: n/a

Budgeted Amount: n/a

Not Budgeted: ☐**Executive Summary** (*if not budgeted please explain*):

Information only report on the Phosphorus Removal and Digester Improvements Project. The intent is to provide the Council Committee an update on the project status.

A member of the Public Works Staff will be available at each of the Government Services Committee meetings to respond to any questions or comments that the Council Committee may have.

Attachments (*please list*):

* Information only project report

Recommendation/Suggested Action (*briefly explain*):

None

Phosphorus Removal and Digester Improvements Project

November 2018

Construction Update Report

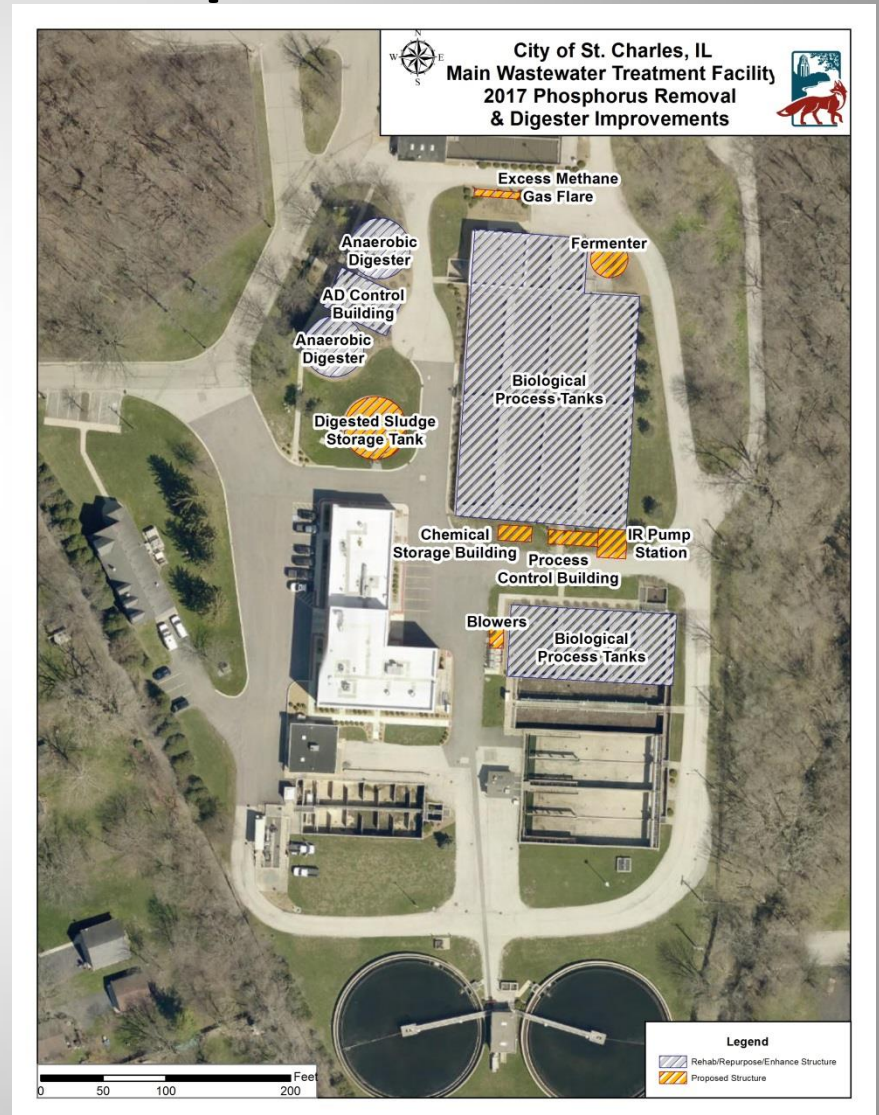
Construction Update

- Construction Contractor: IHC Construction Companies
- Project Schedule:
 - ~~Commence Construction~~ : ~~September 27, 2017~~
 - ~~Chemical Feed System Online~~ : ~~June 1, 2018~~
 - Substantial Completion : April 3, 2019
 - Final Completion : May 3, 2019
- Construction Contract : \$13,294,896
- Approved Contract Change Orders : \$7,954.43
- Pending Contract Change Order : \$10,102.25
- Amount Billed to Date : \$9,957,376
- Construction Percent Billed : 70 %

Construction Update

Current Construction Activity

- North Anaerobic Digester
- AD Control Building
- Digested Sludge Tank
- Fermenter
- IR Pump Station
- Chemical Storage Building
- Blowers
- Biological Aeration Tanks
- Underground Piping



Construction Update Topic #1

- North Digester Paint Coating and Steel Inspections
 - Concern:
 - The third party review of the North digester included the internal coating and steel inspections. The preliminary report was completed 10.10.2018. The report provided some recommendations on the coating replacement and steel repairs.
 - Impacts:
 - Review third party recommendation determine scope that is included in the contract and new scope work to be completed by contractor
 - Contractor will provide estimates for any changes in scope
 - Overall project schedule will be reviewed
 - Solution:
 - Contractor is currently sand blasting the inside of the tank so all parties can see the needed repairs
 - Awaiting on sand blasting to determine what is included in the contract vs new scope
 - Awaiting on contractor to provide cost and schedule impacts
 - Council Action:
 - None

Construction Update Topic #1

- Photos of some preliminary concerns

Coating Delamination and Failure



I-Beam holes in effluent box



Piping Holes



Construction Update Topic #1

- Photos of some preliminary concerns

Deep Steel Pitting and Heavy Rust Build-up



North Anaerobic Digester

Removal of the roof on the digester; Scaffolding being assembled in tank



North Anaerobic Digester

- Has been drained and working on scaffolding installation



Digesters

- Stairs and Platforms



Digester Stair Tower & Walkway

- Sandblasting and final coating



Upper Aeration Tanks

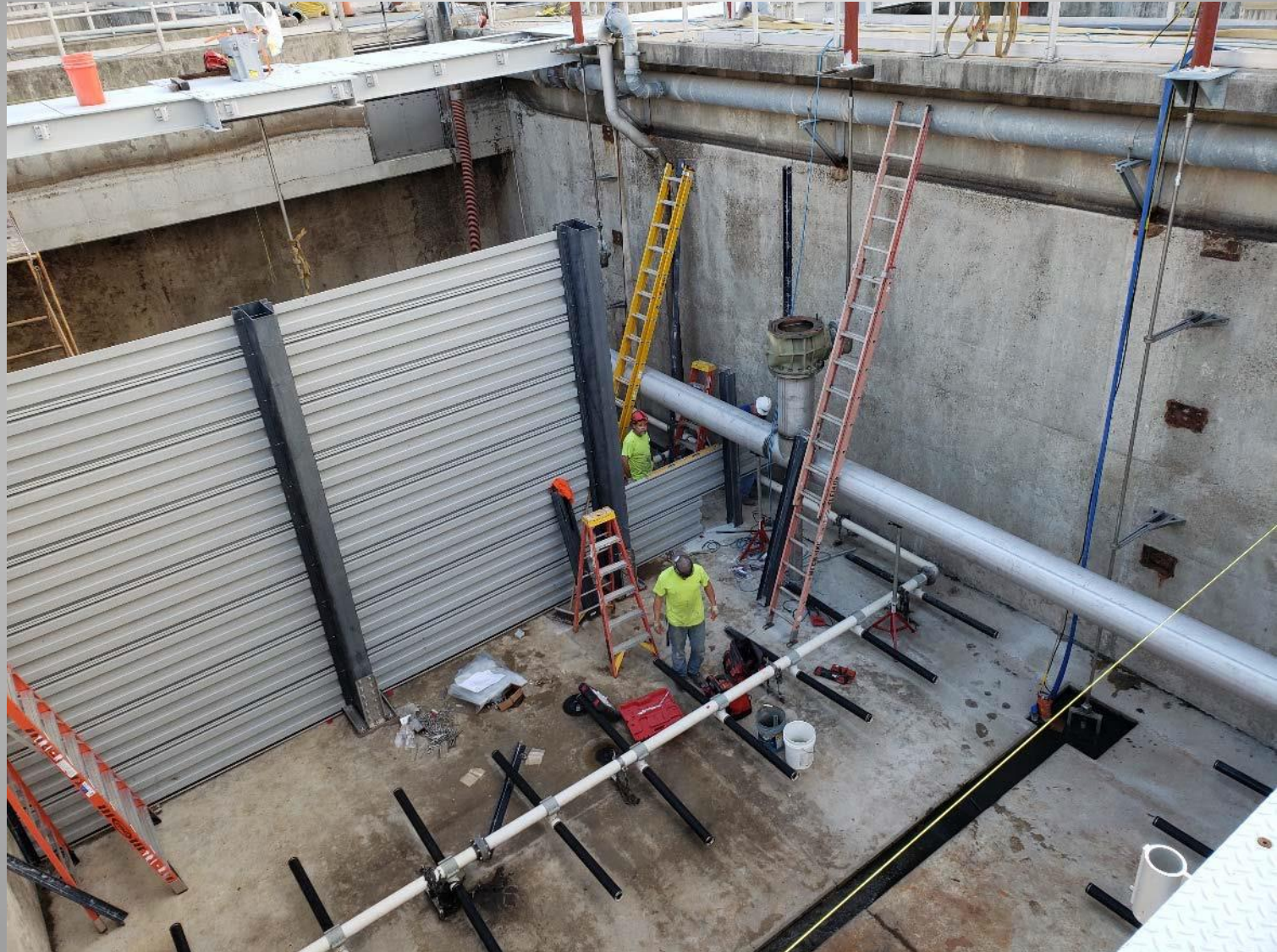


Upper Aeration Tanks

- Wall Core

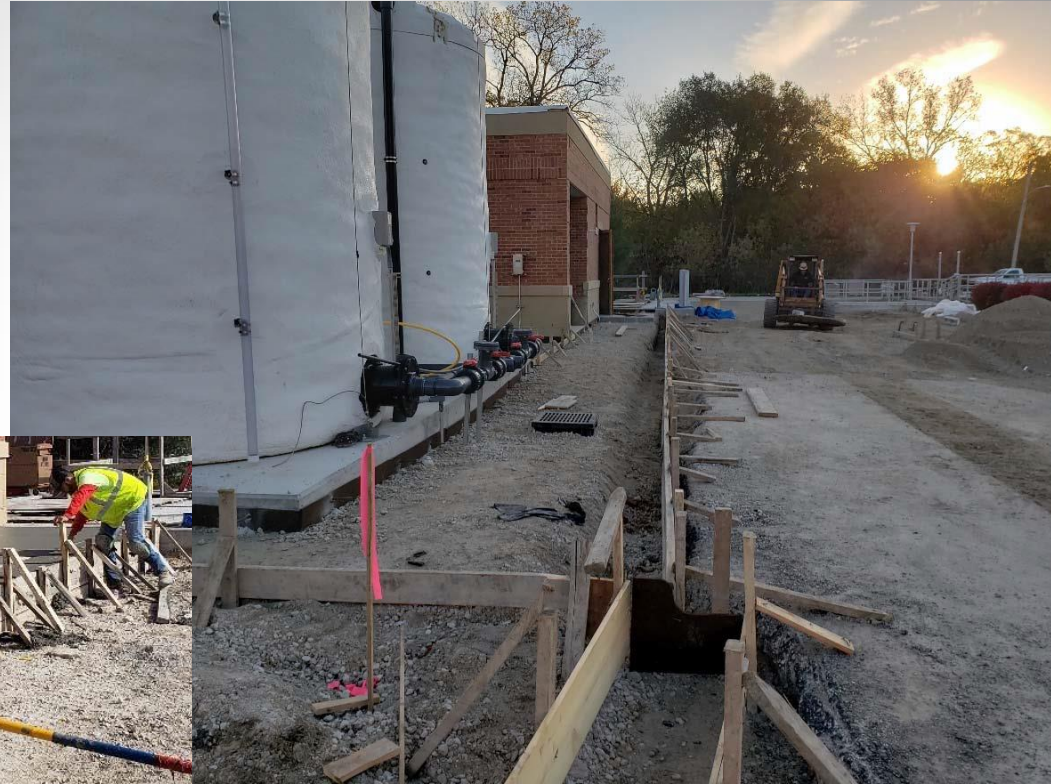


Upper Aeration Tanks



Site Work

Curbs and Sidewalks



Sludge Storage Tank



Sludge Storage Tank

- Welding in the plate on floating cover



Blower Building

- Wiring of Motor Controls



Site Page

- Phosphorus Removal & Digester Improvements Project Page-
 - <https://www.stcharlesil.gov/projects/2017-phosphorus-removal-and-digester-improvements>