

**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: October 22, 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

October 2018

Construction Update Report

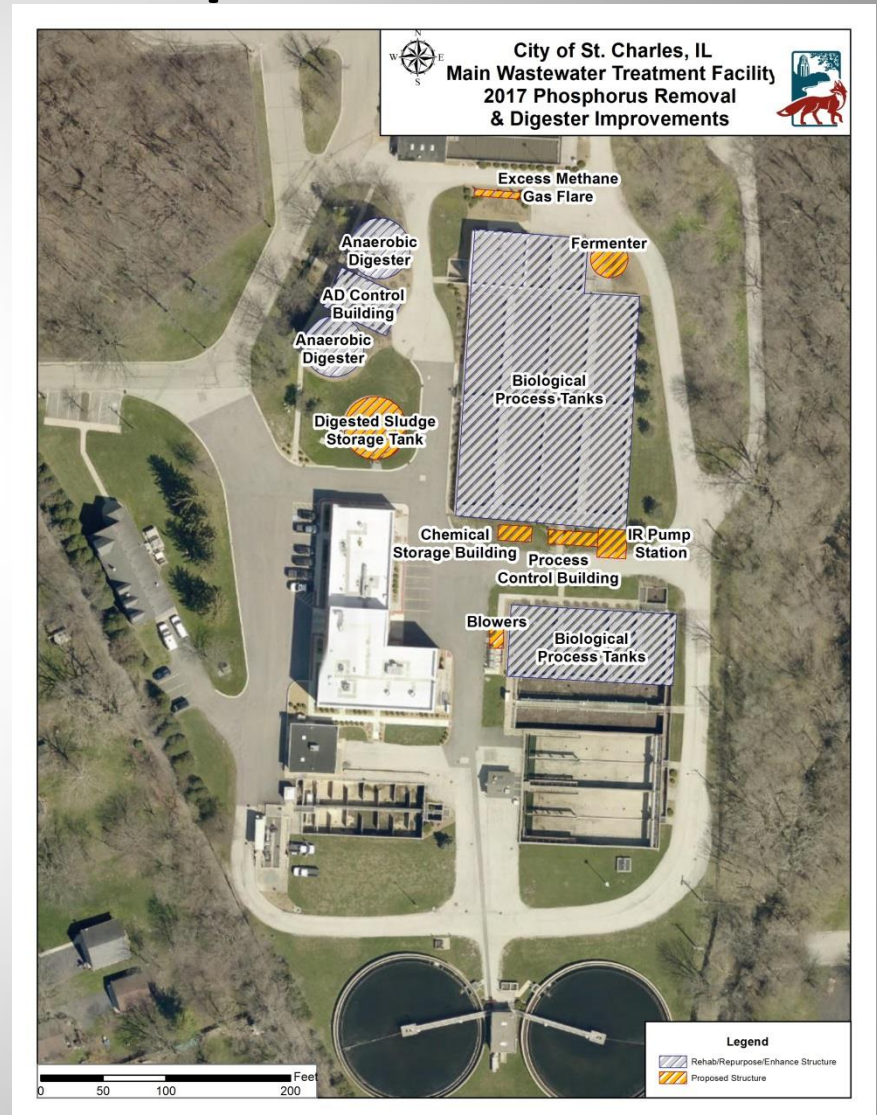
Construction Update

- Construction Contractor: IHC Construction Companies
- Project Schedule:
 - ~~Commence Construction : September 27, 2017~~
 - ~~Chemical Feed System Online : June 1, 2018~~
 - Substantial Completion : February 6, 2019
 - Final Completion : March 8, 2019
- Construction Contract : \$13,294,896
- Approved Contract Change Orders: \$7,954.43
- Pending Contract Change Order: None
- Amount Billed to Date: \$8,097,392
- Construction Percent Billed: 57 %

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:
 - Awaiting on project engineer 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



Digester Control Building

- Removing the North Boiler and Concrete Pad



Digester Stair Tower & Walkway

- Sandblasting and coating



Upper Aeration Tanks

Cleaning and installing mud valves



Upper Aeration Tanks

- Pipe Installation



Upper Aeration Tanks

- Dropping in mixing bridge



Upper Aeration Tanks

Final piping & valves installed in Upper Tank 1



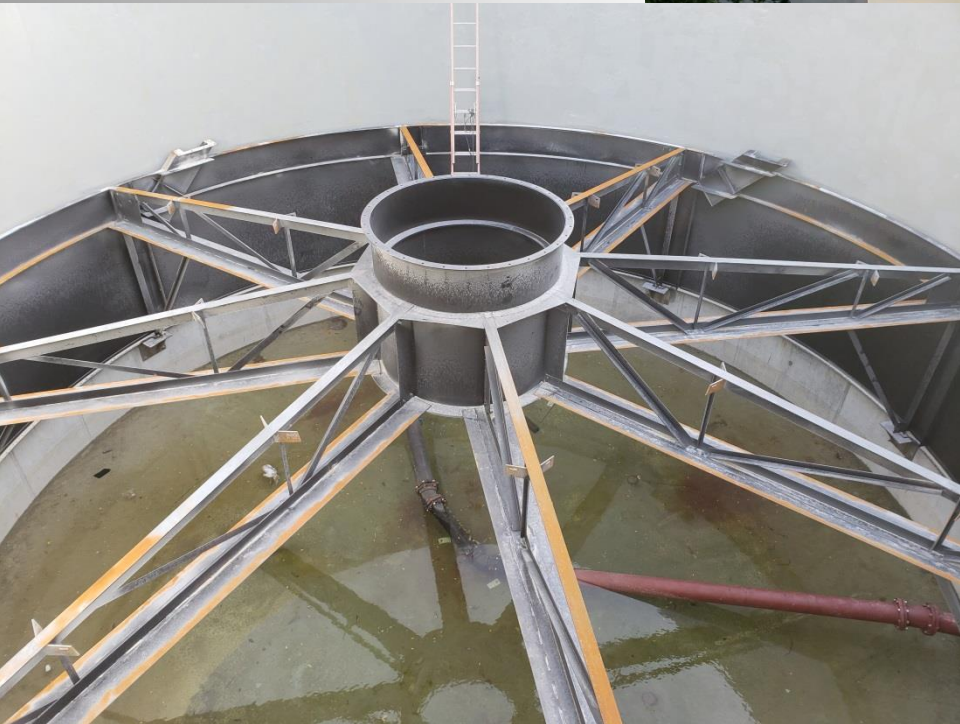
Sludge Storage Tank

- Cover ready to install



Sludge Storage Tank

- Cover lifted and install into tank



Sludge Storage Tank

- Roof plates for cover after sandblasting and coating



IR Pump Station

- Finishing Masonry on Building



Fermenter

- Installation of fermenter mixer



Site Page

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