



TriCo Regional Sewer Utility

www.TriCo.eco Phone (317) 844-9200 Fax (317) 844-9203

JOINT CAPITAL & CONSTRUCTION COMMITTEE AND BOARD OF TRUSTEES MEETING

Monday, April 11, 2022 @ 5:00 P.M.
7236 Mayflower Park Drive, Zionsville, IN 46077

AGENDA

1. Public Comment
2. On-Call I&C Professional Services
3. Service Area Addition
4. Pump Replacements – Lift Stations 1 & 2
5. #2202 Professional Services – Lift Station 8 Reconstruction
6. #2207 Professional Services – Lift Station 26 Parallel Force Main
7. #2208 Professional Services – Lift Station 16 Reconstruction
8. Capital Project Updates
9. Other Business

Next Scheduled Meeting: May 2, 2022 @ 4:30 pm



MEMORANDUM

To: C&C Committee

From: Drew Williams

Date: March 30, 2022

Subject: On-Call I&C Professional Services

Since 2012, TriCo has used ACE Technologies to provide professional services for instrumentation and controls, as well as programming, for the plant and collection system. This vendor's performance is critical to TriCo's reliable and efficient operations. TriCo engages this vendor primarily through an on-call professional services agreement. Over the last three years, on-call services has averaged over \$100,000 in billings annually. On capital projects, this vendor is typically engaged as a sub through a construction contractor.

Late last year, staff began searching for a new service provider with more wastewater industry experience as well as staff consistency and availability. Staff recommends Donohue and Associates to provide these services beginning on or after May 1.

ACE is under contract with Thieneman to complete plant expansion-related controls and programming work, which is nearing completion. ACE has no other open capital projects, and staff needs to begin work on several lift station projects soon. We therefore believe migrating to a new vendor at this time should minimize risk and disruption.

Recommended Action: Recommend the Board approve the professional services agreement with Donohue and Associates, Inc.



MEMORANDUM

To: C&C Committee
From: Ryan Hartman
Date: March 30, 2022
Subject: Service Area Addition

The Town of Zionsville requested TriCo add 4950 South US 421, located just west of the intersection of Michigan Road and CR 500 South, to TriCo's service territory. The request indicated that the property owners want to connect to sewer and that the parcel would be best served by TriCo. The 1.67-acre parcel includes a single family residence. It would connect to the low-pressure sewer on the east side of Michigan Road which was installed under last year's neighborhood sewer project.

Recommended Action: Recommend the Board approve adding the property to TriCo's service territory.





MEMORANDUM

To: C&C Committee
From: Wes Merkle
Date: March 31, 2022
Subject: Pump Replacements – Lift Stations 1 & 2

Existing 335 Hp wet weather pumps at Lift Station 1 (Keystone/99th Street) have reached the end of their service life at over 20 years old. One of the two pumps requires substantial repair. These pumps no longer operate efficiently in terms of flow and energy consumption. Replacing these pumps with newer more clog resistant technology pumps enables staff to eliminate macerators at the lift station, which break down rags and other debris that are inappropriately flushed into our collection system. The two smaller dry weather or duty pumps at this lift station are twelve years old and newer style non-clogging technology.

The existing Pump 3 at Lift Station 2 (106th/Spring Mill Road) is 17 years old. While this pump may continue to operate reliably for a few more years, it is near the end of its service life, and it does not operate as efficiently. Replacing it with a newer more clog resistant technology pump enables staff to eliminate macerators at the lift station. Staff estimates at least \$9,000 per year in reduced electricity costs through eliminating macerators and improved pump efficiency. Also, the macerators at Lift Station 2 are due for approximately \$30,000 in repairs. Four other pumps at Lift Station 2 are 6 years old and have the newer style non-clogging technology.

The following quotes were received for replacement pumps at Lift Stations 1 and 2:

Flygt (Xylem Water Solutions USA, Inc.)	\$368,456.45
KSB (Straeffler Pump & Supply, Inc.)	\$382,190.00

Quotes include lifting equipment, spare parts, and accessories standard in lift station installations. TriCo has long used Flygt pumps for consistency in stocking spare parts and staff familiarity with maintenance and repair. We have no pumps from KSB, however both manufacturers have good reputations. While staff prefers Flygt, they believe KSB pumps are acceptable alternatives.

Delivery is anticipated in 6 months. This summer staff will receive quotes for replacement of wet well piping at Lift Station 1, in addition to wet well lining and pump installation, under capital project #2201. Staff will install Pump 3 at Lift Station 2.

Recommended Action: Recommend the Board approve purchasing replacement pumps from Xylem Water Solutions USA, Inc. for \$368,456.45.



MEMORANDUM

To: C&C Committee

From: Wes Merkle

Date: March 31, 2022

Subject: #2202 Professional Services
Lift Station 8 Reconstruction

Project No. 2202 includes the reconstruction of Lift Station 8 and installation of a new force main to 106th Street and Ditch Road. The lift station is located just east of Ditch Road between 96th and 106th Streets. Staff has spent several years identifying and eliminating sources of inflow and infiltration (I&I) in this area. Meanwhile, the area served by Lift Station 8 continues to develop. The purpose of this project is to reconstruct Lift Station 8, expand its capacity to buildout at 1.6 MGD, and reroute flow to Michigan Road WRRF.

Staff issued a Request for Proposals to four engineering firms. All four firms submitted proposals, three of which have successfully completed sewer design projects with TriCo previously. Staff reviewed their responses and recommends Commonwealth Engineers, Inc. to complete the work, which includes engineering design, permitting, easement acquisition, bidding and construction administration services.

Recommended Action: Recommend the Board approve the professional services agreement with Commonwealth Engineers in an amount not to exceed \$124,100.



MEMORANDUM

To: C&C Committee

From: Wes Merkle

Date: March 31, 2022

Subject: #2207 Professional Services
Lift Station 26 Parallel Force Main

Project No. 2207 includes the extension on a parallel force main for Lift Station 26 along Spring Mill Road from Jackson's Grant Boulevard to 111th Street. Lift Station 26 was constructed with the Jackson's Grant development in 2015. Its construction facilitated replacement of Lift Station 4 and extension of sewer service in the area. Lift Station 26 also allows TriCo to eliminate three nearby lift stations in the future as the area develops. The lift station will eventually serve the northeast quarter of TriCo's service area. The purpose of this project is to expand the capacity of Lift Station 26 from 2.4 MGD to 4.6 MGD. A future project scheduled for 2027 will add two submersible pumps to the lift station when capacity is needed, taking its capacity to 7 MGD.

Staff issued a Request for Proposals to four engineering firms. All four firms submitted proposals, three of which have successfully completed sewer design projects with TriCo previously. Staff reviewed their responses and recommends GRW Engineers, Inc. to complete the work, which includes engineering design, permitting, easement acquisition, bidding and construction administration services.

Recommended Action: Recommend the Board approve the professional services agreement with GRW Engineers in an amount not to exceed \$68,800.



MEMORANDUM

To: C&C Committee

From: Wes Merkle

Date: March 31, 2022

Subject: #2208 Professional Services
Lift Station 16 Reconstruction

Project No. 2208 includes the reconstruction of Lift Station 16. Lift Station 16 is located near the intersection of Sycamore Street and Michigan Road in Zionsville, just south of Zionsville Presbyterian Church. A large mixed-use development "The Farm", located at the southwest corner of Sycamore Street and Michigan Road, will begin construction later this year. This development will substantially increase lift station flows. The developer will provide a site for TriCo to construct a new lift station at the southeast corner of the property, on the opposite side of Michigan Road from the existing lift station. The purpose of this project is to reconstruct Lift Station 16 and expand its capacity to buildout at 1.05 MGD.

Staff issued a Request for Proposals to four engineering firms. All four firms submitted proposals, three of which have successfully completed sewer design projects with TriCo previously. Staff reviewed their responses and recommends GRW Engineers, Inc. to complete the work, which includes engineering design, permitting, easement acquisition, bidding and construction administration services.

Recommended Action: Recommend the Board approve the professional services agreement with GRW Engineers in an amount not to exceed \$74,000.



MEMORANDUM

To: C&C Committee
From: Wes Merkle
Date: March 31, 2022
Subject: Capital Project Updates

The following updates are provided for ongoing capital projects. Please refer to the Capital Project Fact Sheets for background information on individual projects.

- #1902 – TriCo WRRF Expansion

Work continues on the old VLRs, which were taken offline and drained for cleaning and improvements. Crews are installing additional gates between tanks, adding a mixed liquor recycle pump and piping that enables total nitrogen removal, and replacing original rotor motors, gear reducers and bearings on VLRs 1 and 2. The large amount of grit buildup will be removed over the next few weeks.

Another startup of the grit removal equipment had to be postponed due to more equipment problems. Troubleshooting continues. Corrections will be made by the contractor and equipment vendors. Successful startup is anticipated in April.

Improvements to the old VLRs should be complete and back online late April, at which time we will have officially expanded plant capacity to 5.72 MGD. Remaining pavement, including surface pavement throughout the site, final grading and seeding will be completed in spring.

- #2101 – Little Eagle Creek Interceptor Extension

Design engineer GRW completed preliminary engineering work. Staff is working with legal counsel to proceed with easement acquisition. An appraiser has been engaged to determine fair value of needed easements. Staff can then make formal offers based on the appraiser's recommended values.

- #2201 Lift Station 1 (Keystone/99th Street) Wet Weather Pump Replacement & Lift Station 2 (106th/Spring Mill) Pump #3 Replacement

Staff is working with suppliers to finalize quotes for replacement pumps.

- #2202 Lift Station 8 (Laurelwood) Reconstruction, #2207 Lift Station 26 (Jackson's Grant) Parallel Force Main, and #2208 Lift Station 16 (Michigan/Sycamore Street) Reconstruction

Staff issued a Request for Proposals (RFP) for engineering design services, evaluated responses, and will present recommendations to the Board shortly. Construction is anticipated to start this fall.

- #2204, 2205 and 2206 Lift Stations 11, 14 and 26 Backup Generators

GRW is finalizing drawings and specifications for each location. Staff will request quotes to purchase and install generators next month and present recommendations to the Board.

The following projects will begin this year:

- #2203 Biosolids Building Addition
- Pump replacements – Lift Stations 18, 20 and 21
- Lift Station 17 pump impeller upgrades
- #2301 Lift Station 10 (Ashbrook) Upgrades
- #2302 Lift Station 23 (126th Street/West Clay Elementary) Upgrades