



TETRA TECH, INC.

INTEROFFICE MEMORANDUM

TO: Howard Fink, Northfield Township Manager
FROM: Brian Rubel
DATE: March 21, 2016
SUBJECT: Sewer Policies

During recent discussions on sewer capacity, the topic of Northfield's Township policy for new connections has been discussed. Recent studies have provided new insight on sewer capacity and these studies may assist in shaping the Board's direction.

Clarification on the following policy items would assist both the Township's engineering consultant and Township management in discussions with prospective new sewer users.

NORTH TERRITORIAL PUMP STATION AREA

The North Territorial Pump Station was constructed from proceeds of a special assessment district (SAD). The main policy item here is whether the Board will allow development outside the original SAD to connect to the existing pump station.

Policy options to consider for this service area include:

- Exclude all new development
- Allow new development using the Township's exiting connection fee
- Allow new development and develop a new connection fee to pay for a prorated share of future infrastructure needed to support the development

DOWNSTREAM GRAVITY SEWER AREA

The downstream gravity sewer area has little available sewer capacity. Policy options to consider include:

- Exclude all new development
- Allow fill-in development (perhaps less than 100 in total)
- Allow new development while having the developers finance improvements to the downstream sewer system
- Allow new development and develop a new connection fee so developers pay for a prorated share of future infrastructure needed to support the development

ENTIRE SERVICE AREA

The Capacity Inventory revealed that the Township had significant capacity commitments to Green Oak Township and the North Territorial Pump Station SAD. With the construction of a storage tank, the Township would have treatment capacity available to meet these commitments. However, additional development would require the Township to implement a WWTP expansion. The Northfield WWTP has been expanded numerous times (such expansions are a common way for a growing community to meet their wastewater needs) and the Township planned for such an expansion in 2005 when the contract with Green Oak was executed.

Policy options to consider include:

- Exclude all new development
- Allow fill-in development (Perhaps less than 100 in total)
- Allow new development and develop a new connection fee to pay for a prorated share of a future WWTP expansion. The WWTP would be expanded when plant influent flows reach approximately 85% of its rated capacity.