



Tyler Pjesky, I. E., Project Engineer
Professional Engineering Consultants, P. A.
303 S. Topeka
Wichita, KS 67202

Geohydrology Section
Kansas Geological Survey
1930 Constant Avenue
Lawrence, KS 66047
September 5, 2008

Dear Mr. Pjesky:

I have reviewed the information provided to me concerning the City of Wellington improvements to the sanitary sewer system. Based on the information provided to me the project looks sound and should be approved.

The above comments are based on regional geologic conditions and limited information available to the KGS at the time of writing and cannot be used in substitute for a detailed site characterization. Other geologic conditions, not discussed here, or for which the KGS has no knowledge, may affect the viability or safe operation of this facility or property. Geotechnical engineering and design are outside the purview of the KGS. It is the responsibility of the applicant to produce any detailed site characterizations, geotechnical or environmental testing, or design by a licensed professional geologist or engineer to complete the project.

Sincerely,

A handwritten signature in cursive script that reads 'Margaret A. Townsend'.

Margaret A. Townsend
Hydrogeologist

Wellington Wastewater Treatment Facility Improvements Project Review Form
KWPCRF; Project No. C20 1722 01

☐ US Department of the Interior, Fish & Wildlife Service, Kansas State Office
☐ US Army Corps of Engineers, Kansas State Regulatory Office
☐ Kansas Dept. of Wildlife and Parks, Environmental Services Section
☐ Kansas Water Office
☐ Kansas State Historical Society, State Historical Preservation Office
☐ U.S. Department of Agriculture, Natural Resources Conservation Services
☐ Kansas Department of Agriculture, Division of Water Resources
☐ State Conservation Commission
☐ Kansas Biological Survey
☐ Kansas Corporation Commission, Conservation Division
☐ Kansas Geological Survey

Agency Review Comments: (To be completed by reviewing agency and returned to applicant contact person at name and address shown below.)

Comments: _____

Recommended Action: (To be completed by the reviewing agency and returned to applicant contact person at name and address shown below.)

- ☒ Clearance of project should be granted
☐ Clearance of project should not be granted
☐ Clearance of project should be delayed until the issues or questions have been clarified
☐ Clearance of project should not be delayed, but the applicant (in the application) should address or clarify the questions or concerns indicated above.

Margaret A. Townsend 9-5-08
Reviewer's Name Division/Agency/Commission Date

Applicant: The City of Wellington, Kansas
Contact Person: Tyler Pjesky – Tyler.Pjesky@PEC1.com
Address: Professional Engineering Consultants, P.A., 303 S. Topeka
City, State: Wichita Zip: 67202 Phone: 316-262-2691



Professional Engineering Consultants, P.A.

July 24, 2008

Dr. William Harrison, Director
Kansas Geological Survey
University of Kansas
1930 Constant Ave. - Campus West
Lawrence, KS 66047

Reference: Intergovernmental/Environmental Review Request
City of Wellington – New WWTF and
Collection System Improvements
KWPCRF Project C20 1722 01
PEC Project No. 34-07265-002-0135

Dear Dr. Harrison:

The City of Wellington and Professional Engineering Consultants are actively working on design of the City's new Wastewater Treatment Facility (WWTF) and improvements to their sanitary sewer collection system. The City desires to utilize Kansas Water Pollution Control Revolving Loan Funds (KWPCRLF) to finance the construction of the facility and improvements.

As you are aware, part of the KWPCRF application process requires an intergovernmental/environmental review by eleven (11) Kansas state agencies, one of which is yours. The following narrative describing the project and project location is provided to assist you in your review. A project review form is enclosed for your use. After the narrative, additional instruction is available to complete the review.

Project Description & Location

The new WWTF will be a mechanical biological treatment facility with capacity to treat 1.71 million gallons per day of raw wastewater. It is being designed to remove particulates, organics, nutrients, and pathogens from raw wastewater to produce effluent that can be safely discharged into the receiving stream or reused. The treatment process will consist of an on-site pump station, headworks, biological treatment, clarification, disinfection, and reaeration. Biosolids will be aerobically digested, dewatered, and land applied.

Improvements to the sanitary sewer collection system include the following:

- Construction of the Off-Site Pump Station and force main to convey wastewater to the new WWTF. Includes a 21 inch Gravity Sewer Line to the pump station from the west and the Slate Valley Estates Force Main from the south.
- Hargis Creek Replacement Sewer to relieve capacity issues in the existing sanitary sewer collection system.

- Extension of sewer service along "H" street to provide sanitary sewer services to City residents and provide a permanent solution for failing septic systems and a temporary lagoon system.

The location of the new WWTF and collection system improvements are described as follows:

- WWTF – N $\frac{1}{2}$, SW $\frac{1}{4}$, S24, T32S, R1W, Sumner Co. KS
- Off-Site Pump Station: At the southeast corner of the Botkin Street/"A" Street intersection and defined by NW $\frac{1}{4}$, NW $\frac{1}{4}$, SE $\frac{1}{4}$, S23, T32S, R1W, Sumner Co. KS
 - Off-Site Pump Station Force Main – Starts at the Off-Site Pump Station and runs to the east in Botkin Street's easement to the new WWTF.
 - A water main will also be ran to the new WWTF along a similar alignment starting at the intersection of Woodlawn and Botkin.
 - Gravity Sewer Line – Intercepts the existing gravity line southeast of the intersection of Highway 81 and Botkin Street and extends east and north to the Off-Site Pump Station. Located in the N $\frac{1}{2}$, SW $\frac{1}{4}$, S23, T32S, R1W, Sumner Co. KS.
 - Slate Valley Estates Force Main – Is extended from the existing WWTF and runs north along an access road to above mentioned Gravity Sewer Line to the Off-Site Pump Station. Starts approximately at the center of S26, T32S, R1W, Sumner Co. KS and runs north till it exits into the Gravity Sewer Line, a point defined as the center (longitudinally) of the N $\frac{1}{2}$ of the S $\frac{1}{2}$ of S23.
- Hargis Creek Replacement Sewer – Starts in the park slightly east of the approximate center of S14, T32S, R1W, Sumner Co. KS then runs south along Ash Street into S23 thru its approximate center (longitudinally) until it stops just south of Botkin Street at the proposed location of the Off-Site Pump Station.
- "H" Street Sewer Service Extension – "H" Street Sewer Service Extension would be in the easement of "H" Street which sits on the west section line boundary of S11, T32S, R1W, Sumner Co. KS.

The total estimated cost for new WWTF and the collection system improvements described herein is \$16.27 million.

The following drawings are attached for your reference:

USGS Site Map Depicting the Following:

- New WWTF
- Off-Site Pump Station & Force Main
- Water Main to the New WWTF
- Gravity Sewer Line
- Slate Valley Estates Force Main
- Hargis Creek Replacement Sewer

Dr. William Harrison
July 24, 2008
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"H" Street Sewer Service Extension Aerials and USGS Maps

To Complete Review

Please review and provide any comments you may have no later than August 27, 2008, (30 days). Please send a completed project review form and all other responses to:

Tyler Pjesky, I.E.
Professional Engineering Consultants, P.A.
303 S. Topeka
Wichita, KS 67202

Please feel free to contact me at (316) 262-2691 if you have any questions.

Sincerely,

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

A handwritten signature in black ink, appearing to read "Tyler Pjesky".

Tyler Pjesky, I.E.
Project Engineer

TVP/tac

Encl: As noted

cc: Larry Mangan, City of Wellington (w/o encl.)
Rod Geisler, KDHE (w/o encl.)

Additional Documentation
Not Scanned.

Available in Open-file.